1. Approval of the minutes of October 2, 2015.

2. New Courses

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Previously tabled

A46   IDIS 450 — A) does neo email still exist? (Bergeron); B) due to overlapping domain content should have a letter of support from Department of Information and Operations Management and from Department of Statistics (Jasperson); C) There is an error for the grade of F in the Grading Structure. (Kracht)

A59   PHLT 484 — A) form: major code (?) under prerequisites, SCH, DE verification? (SW)

3. Withdrawal of Courses

B6    CVEN 333
B7    ISEN 333
B8    MEEN 333
B9    PSYC 405

4. Change in Courses

C77   AFST 204 - prerequisites
C78   AFST 205 - prerequisites
C79   AGSM 301 - prerequisites
C80   AGSM 315 - prerequisites, cross-listed with FSTC 315
C81   AGSM 360 - prerequisites
C82   ARTS 303 - prerequisites
C83   ASIA 350 - course title, description, cross-listed with HIST 350
C84   BICH 107 - course number (to 101), course title, lec hrs, SCH, description, prerequisites, cross-listed with GENE 101
C85  BICH 414 - prerequisites
C86  BMEN 101 - prerequisites
C87  BMEN 207 - prerequisites
C88  BMEN 211 - prerequisites
C89  BMEN 253 - prerequisites
C90  BMEN 305 - prerequisites
C91  BMEN 321 - prerequisites
C92  BMEN 322 - prerequisites
C93  BMEN 341 - prerequisites
C94  BMEN 343 - prerequisites
C95  BMEN 344 - prerequisites
C96  BMEN 401 - prerequisites
C97  BMEN 404 - prerequisites
C98  BMEN 406 - prerequisites
C99  BMEN 420 - prerequisites
C100 BMEN 431 - course description, prerequisites
C101 BMEN 432 - prerequisites
C102 BMEN 450 - prerequisites
C103 BMEN 451 - prerequisites
C104 BMEN 452 - prerequisites
C105 BMEN 453 - prerequisites, lec hrs, lab hrs
C106 BMEN 454 - prerequisites, lec hrs, lab hrs
C107 BMEN 457 - prerequisites
C108 BMEN 461 - prerequisites
C109 BMEN 463 - prerequisites
C110 BMEN 465 - prerequisites
C111 BMEN 480 - prerequisites
C112 BMEN 482 - prerequisites
C113 CHEM 289 - zero credit
C114 CHEN 204 - prerequisites, lec hrs, lab hrs
C115 CVEN 400 - prerequisites
C116 CVEN 424 - prerequisites
C117 CVEN 456 - prerequisites
C118 CVEN 483 - prerequisites
C119 EHRD 372 - course title, description, prerequisites
C120 EHRD 374 - prerequisites
C121 EHRD 413 - prerequisites
C122 ENGL 352 - prerequisites
C123 ENGL 497 - zero credit
C124 ESET 151 - course number (to 319), prerequisites
C125 ESET 211 - lec hrs, SCH
C126 ESET 352 - prerequisites
C127 ESET 419 - prerequisites
C128 FINC 485 - prerequisites, zero credit, variable hours
C129 FREN 300 - course title, description
C130 FREN 301 - course title, description
C131 FREN 311 - course title, description
C132 FREN 321 - course title, description
C133 FREN 322 - course title, description
C134 FREN 336 - course title, description
C135 FREN 475 - course number (to 375), description, prerequisites
C136 FSTC 315 - prerequisites, cross-listed with AGSM 315
C137 GENE 105 - course title, description, lec hrs, SCH, prerequisites, cross-listed with BICH 101
C138  HIST 234 - course title, description
C139  HIST 350 - course title, description, cross-listed with ASIA350
C140  HIST 353 - course description
C141  HIST 365 - course description, cross-listed with RELS 365
C142  HIST 416 - course title, description, prerequisites
C143  HIST 438 - course title, description, prerequisites
C144  HIST 439 - course title, description, prerequisites
C145  HIST 450 - course title, description, prerequisites
C146  HIST 451 - course title, description, prerequisites
C147  HIST 462 - course title, prerequisites
C148  HIST 463 - course title, prerequisites
C149  HIST 477 - course title, cross-listed with WGST 477
C150  LAND 310 - course number (to 301), catalog course title
C151  LAND 329 - course number (to 231)
C152  LAND 331 - course number (to 321)
C153  MATH 167 - course title, description
C154  MATH 423 - prerequisites
C155  MATH 425 - prerequisites
C156  MMET 275 - lec hrs, SCH
C157  MUSC 311 - prerequisites
C158  MUSC 312 - prerequisites
C159  POLS 300 - course number (to 200), description, prerequisites
C160  PSYC 484 - description, zero variable credit
C161  RELS 365 - course description, cross-listed with HIST 365
C163  SPMT 482 - course title, description
C162  WGST 477 - course title, cross-listed with HIST 477

Previously tabled
A59  PHLT 302, PHLT 303, PHLT 305, PHLT 330, PHLT 445 - A) It seems that a 300 level course should require a prerequisite of junior/senior classification. The university loses the upper division level of subvention for lower division students enrolled in the course.
     (Kracht)

5. Change in Curricula

**College of Agriculture and Life Sciences**
   Department of Biochemistry and Biophysics
   D33  BS in Biochemistry
   D34  BS in Genetics

**Mays Business School**
   Department of Finance
   D35  Certificate in Commercial Banking

**College of Education and Human Development**
   Department of Health and Kinesiology
   D70  BS in Sport Management – Internship Track
   D71  BS in Sport Management – Non-Internship Track
   D72  Minor in Sport Management

**Dwight Look College of Engineering**
   Department of Civil Engineering
   D36  BS in Civil Engineering - Coastal & Ocean Engineering Track
   D37  BS in Civil Engineering - Construction Engineering & Management Track
D38  BS in Civil Engineering - Environmental Engineering Track  
D39  BS in Civil Engineering - General Civil Engineering Track  
D40  BS in Civil Engineering - Geotechnical Engineering Track  
D41  BS in Civil Engineering - Structural Engineering Track  
D42  BS in Civil Engineering - Transportation Engineering Track  
D43  BS in Civil Engineering - Water Resources Engineering Track  

Dwight Look College of Engineering  
Department of Engineering Technology and Industrial Distribution  
D44  BS in Electronic Systems Engineering Technology

Dwight Look College of Engineering  
Department of Industrial and Systems Engineering  
D45  BS in Industrial Engineering

College of Liberal Arts  
Department of English  
D46  BA in English

Department of International Studies  
D47  BA in Modern Languages - French Track  
D48  BA in Modern Languages - German Track  
D49  Minor in German

Department of Philosophy  
D50  BA in Philosophy

Department of Political Science  
D51  BA in Political Science  
D52  BA in Political Science and Master in Public Service Administration - 5-year degree  
D53  BS in Political Science  
D54  BS in Political Science and Master in Public Service Administration - 5-year degree

Department of Psychology  
D55  BA in Psychology  
D56  BS in Psychology

College of Science  
Department of Mathematics  
D57  BS in Applied Mathematical Sciences  
D58  BS in Applied Mathematical Sciences - Actuarial Science Emphasis  
D59  BS in Applied Mathematical Sciences - Biological Science Emphasis  
D60  BS in Applied Mathematical Sciences - Computational Science Emphasis  
D61  BS in Applied Mathematical Sciences - Economics Emphasis  
D62  BS in Applied Mathematical Sciences - Statistics Emphasis  
D63  BS in Applied Mathematical Sciences - 5-year degree program  
D64  BA in Mathematics  
D65  BA in Mathematics - 5-year degree program  
D66  BS in Mathematics  
D67  BS in Mathematics - 5-year degree program  
D68  BS in University Studies - Mathematics for Business Concentration  
D69  BS in University Studies - Mathematics for Pre-Professionals Concentration
6. Texas A&M University at Galveston

   a. New Courses
      
      G3a  MARA 475  
      G4a  MARB 406  
      G5a  MARS 252  
      
      G6a  MARS 365  
      G7a  MARS 461  
      G8a  MAST 336  
      G9a  MAST 493  

   b. Change in Courses
      
      G1c  MARB 437 - lab hrs, SCH, course description, prerequisites  
      G2c  MARS 101 - course title, description  
      G3c  MARS 303 - course title, description  
      G4c  MARS 410 - course title, description, prerequisites  
      G5c  MARS 430 - course prerequisites  
      G6c  MARS 431 - course prerequisites  
      G7c  MARS 440 - course title, description, prerequisites  
      G8c  MARS 460 - course title, description, prerequisites, lec/lab hrs, SCH  
      G9c  MART 202 - lec/lab hrs  
      G10c  MART 350 - grade mode  
      G11c  MART 352 - course title, core curriculum

   c. Change in Curricula
      
      Texas A&M University at Galveston
      Department of Marine Biology
      G7d  BS in Marine Fisheries

      Department of Marine Sciences
      G8d  BS in Marine Sciences
      G9d  BS in Marine Sciences - License Option
      G10d  BS in Ocean and Coastal Resources
      G11d  BS in Ocean and Coastal Resources and Master in Marine Resources Management (3+2)

      Department of Maritime Administration
      G12d  BS in Maritime Administration
      G13d  BS in Maritime Administration and Master of Maritime Administration and Logistics (3+2)

   d. Special Consideration
      
      Texas A&M University at Galveston
      Department of Liberal Studies
      University Studies Degree
      G2h  Area of Concentration in Maritime Public Policy and Communication
           Request for a new program
7. Special Consideration

**College of Education and Human Development**

H19  Department of Health and Kinesiology  
    BS in Kinesiology and MS in Athletic Training  
    Request for a new 3+2 program

**Dwight Look College of Engineering**

H14  Certificate in Engineering Project Management  
    Request to discontinue certificate

H15  Minor in Engineering Project Management  
    Request for a new minor

**College of Liberal Arts**

H16  University Studies Degree  
    Area of Concentration - Religious Thought, Practices and Cultures  
    Request for a new program

Department of Philosophy and Humanities

H17  Area of Concentration - Society, Ethics and Law  
    Request for a new program

H18  Certificate in Philosophy Pre-Law  
    Request for a new certificate program

8. Other Business

- Distance Education Programs
Members present: Tim Scott (Chair), College of Science; James Herman (Vice Chair), College of Veterinary Medicine and Biomedical Sciences; Bob Knight, College of Agriculture and Life Sciences; Leslie Seipp (for Jon Jasperson), Mays Business School; Patricia Campbell, Texas A&M Baylor College of Dentistry; Christine Bergeron, College of Education and Human Development; Anthony Cahill (for Prasad Enjeti), Dwight Look College of Engineering; Steve Oberhelman, College of Liberal Arts; Jennifer Ross, School of Public Health; Glenn Jones, Texas A&M University at Galveston; Stephanie Graves, Texas A&M University Libraries; Kristin Harper (for Ann Kenimer), Undergraduate Studies; Jean Layne, Center for Teaching Excellence; John Louis Bolch, Office of the Registrar.

Guests: Ed Rister, Department of Agricultural Economics; David Forrest, Department of Animal Science; Mike Arnold and Justin Ali, Department of Horticultural Sciences; Jake Williams, Office of the Registrar; Adrea Dottavio, Department of Wildlife and Fisheries Sciences.

The Undergraduate Curriculum Committee recommends approval of the following:

1. The minutes of the September 4, 2015 meeting.

2. New Courses

   AFST 398. Africana Cinema. (3-0). Credit 3. Overview of African cinema; historical survey of cinema from Africa and the African Diaspora; introducing films produced in several geographical regions and reflecting different filmmaking traditions. May be taken two times for credit. Prerequisite: Junior or senior classification, or approval of instructor. Cross-listed with FILM 398.

   AGEC 223. Establishing Agribusiness Entrepreneurship Networks I. (1-0). Credit 1. Introduction to successful entrepreneurs and other professionals, identifying suggested strategies and tactics in starting and sustaining viable rural and metropolitan business ventures; emphasis on importance of and how to develop relationships with a broad spectrum of mentors. Prerequisite: Open to all majors.

   AGEC 423. Establishing Agribusiness Entrepreneurship Networks II. (1-0). Credit 1. Engagement opportunities with successful agri/metropolitan entrepreneurs and other professionals, focusing on strategies and tactics for starting and sustaining viable rural and metropolitan business ventures; emphasis on importance of, and how to, develop relationships with a broad spectrum of mentors. Prerequisites: Concurrent enrollment in AGEC 223; junior or senior classification or approval of instructor. May not enroll in AGEC 223 and AGEC 423 during the same semester.


   BAEN 431. Fundamentals in Bioseparations. (3-0). Credit 3. Design principles and application of chemical engineering unit operations to the production of therapeutic and bioactive molecules. Prerequisite: BAEN 302 or BMEN 282 or CHEN 282 or CHEN 382. Cross-listed with CHEN 431.

   BIOL 462. Amazon River Tropical Biology. (3-0). Credit 3. History, ecology, evolutionary-biology, geography and culture of the Amazon River and Rio Negro; exploration of the world’s most bio-diverse river during a 10-day expedition from Manaus, Brazil; survey biota, record observations about the ecosystem, select research topics, development of presentations. Prerequisites: BIOL 107, BIOL 112, BIOL 113, BIOL 357 or RENR 205; or approval of instructor. Cross-listed with WFSC 462.
CHEN 431. Fundamentals in Bioseparations. (3-0). Credit 3. Design principles and application of chemical engineering unit operations to the production of therapeutic and bioactive molecules. Prerequisite: BAEN 302 or BMEN 282 or CHEN 282 or CHEN 382. Cross-listed with BAEN 431.

FILM 349. Documentary Cinema. (3-0). Credit 3. History and theory of documentary cinema; examination of documentary film’s ability to both reflect and shape the history of its time. May be taken two times for credit. Prerequisite: Junior or senior classification, or approval of instructor.

FILM 398. Africana Cinema. (3-0). Credit 3. Overview of African cinema; historical survey of cinema from Africa and the African Diaspora; introducing films produced in several geographical regions and reflecting different filmmaking traditions. May be taken two times for credit. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with AFST 398.

HORT 416. Understanding Wine: From Vines to Wines and Beyond. (3-0). Credit 3. Facets of wine in the United States and around the world; the history of wine, grape growing and winemaking, types of wine, wine etiquette, beer and spirits, sensory evaluation, wine marketing, and winery tasting room and event management. Prerequisites: Must be 21 years of age; junior senior classification.

PHLT 432. Human Factors and Ergonomic Health and Safety. (3-0). Credit 3. Principles of ergonomics including principles of anatomy, physiology, instrument design, and work environments; emphasis on ergonomic design, implementing ergonomic programs. Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 433. Industrial Inspections and Audit Techniques. (3-0). Credit 3. Principles of conducting industrial audits for fire, safety and security; emphasis on the role of the health and safety professional, assessing safety programs and meeting regulatory requirements. Prerequisites: Public health major; junior or senior classification; or approval of instructor.

PHLT 434. Project Cost Benefit and Economics. (3-0). Credit 3. Estimation and management of project costs; emphasis on improving accuracy of cost projection, making better modifications to cost on work in-progress. Prerequisites: Public health major; junior or senior classification; or approval of instructor.

WFSC 462. Amazon River Tropical Biology. (3-0). Credit 3. History, ecology, evolutionary-biology, geography, and culture of the Amazon River and Rio Negro; exploration of the world’s most bio-diverse river during a 10-day expedition from Manaus, Brazil; survey biota, record observations about the ecosystem, select research topics, development of presentations. Prerequisites: BIOL 107, BIOL 112, BIOL 113, BIOL 357 or RENR 205; or approval of instructor. Cross-listed with BIOL 462.

3. Change in Courses

AGSC 425. Learner Centered Instruction in Agricultural Science.

Prerequisites
From: AGSC 402 and AGSC 405; senior classification; or approval of department head.
To: Grade of C or better in AGSC 402 and AGSC 405.
AGSC 436. Professional Teaching Internship in AGSC.

Prerequisites
From: Senior classification; completion of the prerequisite sequence of professional courses in agricultural education; full admission into student teaching.
To: Grade of C or better in AGSC 402 and AGSC 405.

AGSC 481. Seminar.

Prerequisites
From: Approval of department head.
To: Grade of C or better in AGSC 402 and AGSC 405.

AGSC 484. Field Experience.

Prerequisites
From: Senior classification; 2.0 GPR; approval of department head.
To: Grade of C or better in AGSC 402 and AGSC 405.

HORT 306. Woody Ornamental Plants.

Course title
From: Woody Ornamental Plants.
To: Trees and Shrubs for Sustainable Built Environments.

Prerequisites
From: BIOL 101 or HORT 201 or approval of instructor.
To: BIOL 111 or BIOL 113 or HORT 201 or approval of instructor.

HORT 308. Landscape Plant Materials.

Course title
From: Landscape Plant Materials.
To: Plants for Sustainable Landscapes.

Prerequisites
From: HORT 201 or HORT 306 or BIOL 101 or approval of instructor.
To: BIOL 111 or BIOL 113 or HORT 201 or HORT 306 or approval of instructor.

OCNG 252. Oceanography Laboratory.

Course description
From: Hands-on laboratory experiments and exercises demonstrating principles of ocean sciences; emphasis on the unique interdisciplinary nature of the ocean and current ocean issues relevant to today’s society; tailored for the non-scientist. Honors sections are also available.
To: Hands-on laboratory experiments and exercises demonstrating principles of ocean sciences; emphasis on the unique interdisciplinary nature of the ocean and current ocean issues relevant to today’s society. Honors sections and contracts are also available.
NRSC 311. Comparative Psychology.

Course title
   From: Comparative Psychology.
   To: Psychology of Animal Behavior.

PSYC 311. Comparative Psychology.

Course title
   From: Comparative Psychology.
   To: Psychology of Animal Behavior.

4. Change in Curricula

   College of Agriculture and Life Sciences
      Department of Agricultural Leadership, Education and Communication
      BS in Agricultural Sciences – Teaching Option

   Mays Business School
      All undergraduate degree programs

   College of Liberal Arts
      Department of International Studies
         BA in International Studies
            International Communication and Media Track
            Environmental Studies Track
            International Geographic Information System Track
         Minor in Arabic Studies

5. Special Consideration

   College of Agriculture and Life Sciences
      Department of Agricultural Economics
         Minor in Agribusiness Entrepreneurship
         Request for a new minor

6. New Courses – from September 2015 UCC Meeting

   ESSM 461. Spatial Databases for Data Storage, Manipulation and Analysis. (1-4). Credit 3.
   Relational databases and advanced geodatabase capabilities; types of geodatabases; Structured Query
   Language including join-types and subqueries; ArcGIS Desktop Advanced. Prerequisites: ESSM 459;
   junior or senior classification or approval of instructor.

7. Change in Curricula – from September 2015 UCC Meeting

   College of Agriculture and Life Sciences
      Department of Ecosystem Science and Management
         BS in Spatial Sciences
         Minor in Spatial Sciences
8. Tabled Items

   PHLT 484 – A) form: major code (?) under prerequisites, SCH, DE verification? (SW)

   PHLT 302, PHLT 303, PHLT 305, PHLT 330, PHLT 445 - A) It seems that a 300 level course should require a prerequisite of junior/senior classification. The university loses the upper division level of subvention for lower division students enrolled in the course. (Kracht)

9. Election of Chair and Vice Chair. The committee elected Dr. Jim Herman as Chair and Dr. Robert Knight as Vice Chair of the Undergraduate Curriculum Committee to serve through December 2017.

10. Other Business

    The new location for Disability Services was discussed. It was suggested the webpage needs to be updated with the new location.
NEW COURSES
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DDE, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Department of Aerospace Engineering
3. Course prefix, number and complete title of course:
   AERO 411 Applications of Fracture Mechanics to Aerospace Structures

4. Catalog course description (not to exceed 50 words):
   Foundations of linear elastic fracture mechanics of aerospace structure; calculation of stress intensity factors and energy release rates; crack growth under fatigue loading; ASTM standards for fracture testing; the role of fracture mechanics in the analysis and design of aerospace structures.

5. Prerequisite(s):
   Cor better in AERO 304 or equivalent

   Cross-listed with:

   Stacked with:

   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? □ Yes □ No
   If yes, from ________ to ________

7. Is this a repeatable course? □ Yes □ No
   If yes, this course may be taken ________ times.

8. Will this course be repeated within the same semester? □ Yes □ No

9. Will this course be submitted to the Core Curriculum Council? □ Yes □ No

10. How will this course be graded? □ Grade □ S/U □ P/F (CL/MD)

11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix Course # Title (excluding punctuation)

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
AERO 411 Applications of Fracture Mechanics to Aerospace Structures

Credit 3: (3-0)

Fall 2016

Instructor:  Dr. Vikram Kinra, HRBB 736D, (979) 845-1667, kinra@tamu.edu

Prerequisite:  C or better in AERO 304 or equivalent. Note: AERO 306 is not a prerequisite

Office Hours:  MWF 4 to 5 PM. Or email me for an appointment.

Course Description:  Foundations of linear elastic fracture mechanics of aerospace structure; calculation of stress intensity factors and energy release rates; crack growth under fatigue loading; ASTM standards for fracture testing; the role of fracture mechanics in the analysis and design of aerospace structures.

Course Objectives:  The central objective of the course is to develop quantitative tools to predict the failure of solids and structures containing sharp cracks under given loading conditions by using the principles of Mechanics of Solids.

Required Textbook:
The textbooks will be supplemented with extensive notes by the instructor

Sourcebook:

Learning Outcomes.  At the end of the course the students will be able to:

1. Describe how the foundations of fracture mechanics can be used to predict failure of aerospace structures
2. Apply LEFM (Linear Elastic Fracture Mechanics) principles to calculate/estimate the stress intensity factor for a variety of structures containing sharp cracks.
3. Calculate energy release rate.
4. Calculate the effect of thickness on fracture toughness.
5. Calculate the growth of a sharp crack under fatigue loading.
6. Use the latest ASTM standards for the measurement of fracture toughness $K_{lc}$
7. Apply the principles of fracture mechanics in the analysis and design of aerospace structures.
Schedule:

Week 1: Why Fracture Mechanics?; Theoretical Strength of Materials; Griffith Theory of Fracture
Week 2: Crack-Tip Stress Field; Stress Intensity factor (SIF); Energy Release Rate (ERR)
Week 3: Compliance Method; Equivalence between ERR and SII
Week 4: Calculation of SIF Using the Compliance Method
Week 5: Crack-tip Plasticity; Size of Plastic Zone; Irwin Estimates; Dugdale Model
Week 6: Shape of Plastic Zone; Von Mises criterion; Tresca Criterion; EXAM I 10/07/16
Week 7: Plane Strain vs. Plane Stress
Week 8: Effect of Plate Thickness on Fracture Toughness
Week 9: SIF for a Variety of Geometries; EXAM II 10/25/16
Week 10: Estimation of SIF for Complex Geometries
Week 11: Fatigue Crack Propagation
Week 12: ASTM Testing
Week 13: ASTM Testing
Week 14: J-Integral
Week 15: Final Exam

Grading:

Homework: 30%
Mid-Term Exam I: 30%
Mid-Term Exam II: 30%
Attendance 10%

Grading Scale: A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: below 60%
Attendance Policy: Attendance will count for 10% of the total grade. Only university excused absences will be accepted. See http://student-rules.tamu.edu/rule07 for more details regarding attendance and Excused Absences.

Make-up Policy: If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for the absence. Among the reasons absences are considered excused by the university are the following (see Student Rule 7 for details http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index.
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days: Student will provide one or both of these (at instructor's discretion), within one week of the last date of the absence:
   (i.) Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu
   (ii.) Confirmation of visit to a health care professional affirming date and time of visit.
   c) An absence for a non-acute medical service does not constitute an excused absence.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.
9) Mandatory participation as a student-athlete in NCAA-sanctioned competition.
10) In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as is deemed medically necessary by the student's physician. Requests for excused absence related to pregnancy should be directed to the instructor.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the
student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class. Accommodations sought for absences due to the observance of a religious holiday can be sought either prior or after the absence, but not later than two working days after the absence.

Americans with Disabilities Act (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B118 of Cain Hall or call 979-845-1637. For additional information, visit http://disability.tamu.edu.

Aggie Honor Code: "An Aggie does not lie, cheat, or steal or tolerate those who do."
Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: http://aggiehonor.tamu.edu Academic misconduct involves any of the following: cheating, fabrication, falsification, multiple submission, plagiarism, and complicity. Homework assignments need to be written in your own words. Copying from a web site, even if referenced, is considered plagiarism.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (MD, DDS, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Agricultural Leadership, Education, and Communications

3. Course prefix, number and complete title of course: AGCJ 413: Emerging Media in Agriculture

4. Catalog course description (not to exceed 50 words).
   Popular emerging media in agriculture to communicate, build, and market a brand online; understanding the strategy behind the posts and other communications, create emerging media communications strategies for academic or business entities that may be implemented upon completion of the course.

5. Prerequisite(s): AGCJ 313

6. Is this a variable credit course? ☑ Yes ☐ No
   If yes, from _____ to _____

7. Is this a repeatable course? ☑ Yes ☐ No
   If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester? ☐ Yes ☑ No

8. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No

9. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLMU)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   BS in Agricultural Communication and Journalism

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-contROLS/export-control-basics-for-distance-education).

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
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<tbody>
<tr>
<td>AGCJ</td>
<td>413</td>
<td>Emerging Media in Agriculture</td>
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<table>
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<th>Lab</th>
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Level 4

Approval recommended by:

Tracy Rutherford
Department Head or Program Chair (Type Name & Sign) 9/25/15

Chair, College Review Committee
Date

Dean of College
Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams, Ext. 4507 or sandra.williams@tamu.edu
Curricular Services - 07/14
AGCJ 413
Emerging Media in Agriculture
Texas A&M University
Department of Agricultural Leadership, Education, and Communications

Instructor
Dr. Holli Leggette, Assistant Professor
262 AGSLS Building; hollileggette@tamu.edu
LinkedIn: Holli Leggette
Facebook: Holli Archer
Twitter, Instagram, and Pinterest: @drhollira

Course Meeting Schedule

Course Emerging Media Handles
Facebook: Texas A&M Social Media in Agriculture, Fall 2015

Course Description
This course will cover the use of popular emerging media in agriculture (e.g., Facebook, Twitter, LinkedIn, Pinterest, Instagram, and others) to communicate, build and market a brand online. Emphasis will be put on understanding the strategy behind the posts and other communications. Students will create emerging media communications strategies for academic or business entities that may be implemented upon completion of the course.

Learning Outcomes
By the end of the course, students will be able to

- Identify and analyze audiences for emerging media platforms,
- Develop trustworthy, influencing, and engaging copy for dissemination on emerging media platforms,
- Make decisions about content and posting times using analytics and other real-time data,
- Create and deliver an emerging media strategy for a specific client.

Course Information
The Texas A&M University eCampus System will be used, at times, to distribute course content, post grades and communicate changes to the course material or schedule. All students are expected to check eCampus and email on a regular basis. At times you may be required to submit assignments, labs or quizzes on eCampus. You will be provided instructions as necessary throughout the semester. eCampus is accessible at ecampus.tamu.edu.

REQUIRED AS PART OF THE COURSE

- Create/update your LinkedIn, Facebook, Twitter, and Instagram profiles (get as close to 100 percent completeness of your profile as possible)
- Connect with Megan and me on LinkedIn and Twitter
- Join the course’s Facebook group and Twitter list
• Use the hashtag #AGCJGoesSocial when posting course-related materials on Instagram and Twitter
• Incorporate reputable emerging media blogs and news outlets into your media diet

Required Texts

Recommended (not required) Texts and Materials
• *The Associated Press Stylebook*, latest edition
• Flash Drive or other compatible media storage (may be used for other classes or recycled from other classes).

Assignments
There are several key things you need to know when submitting work for a grade:
• A high level of original, clear thought should be reflected in your work. Students are expected to be creative and to think clearly.
• *You have a combination of low-, medium-, and high-stakes writing assignments. You will not receive feedback on the low-stakes writing as they are opportunities for you to practice writing and to write without evaluative feedback. All low-stakes writing will be a completion grade.*
• Spelling, grammar and neatness matter. When preparing and submitting assignments for this course, you will be expected to follow AP Style rules found in the 2011, 2012, or 2013 edition. The 2013 edition will take precedence over the 2011 and 2012 editions.
• All assignments must be typed, unless otherwise explained in class.
• Assignments are graded based on the product submitted, not the effort invested. However, more often than not, the amount of effort invested is reflected in the grade.
• AGCJ 413—Emerging Media materials may not be submitted for credit in another course (or vice versa) without written approval from both instructors.
• **NO assignments** will be accepted via email. All assignments must be submitted in hard copy format unless otherwise asked to submit via eCampus.
• If you are absent, it is your responsibility to catch up on missed material. You will have one week from the date the doctor releases you to go back to school or the day you arrive back on campus to make up missed assignments.
• Specific requirements will be given with each assignment. All papers and assignments are due at 5 p.m. on the due date, unless otherwise noted in the assignment sheet.

Graded Assignments
All information about assignments is provided in a separate assignment sheet that you will receive in class and that is posted on eCampus.

- Personal Persona 50 points (5%)
- Lecture-Based Assignments 100 points (10%)
- Discussion Questions 100 points (10%)
- Community Participation 100 points (10%)
- Brand Case Study 100 points (10%)
• LinkedIn Profile  
• Emerging Media Strategy  
   200 points (20%)  
   350 points (35%)

**Extra Credit**  
Perfect Attendance (Only extra credit opportunity offered)  
   20 points (2%)

**Grades**  
You will have graded and ungraded assignments as part of this course. All graded assignments in this course are noted in this syllabus. The lecture-based assignments noted above are assignments included in and distributed through the lectures. You will need to attend lectures to receive these assignments. Your ungraded assignments will be completed throughout the semester. These assignments will facilitate the process of learning and, when taken seriously, will help you to succeed in this course. Therefore, I suggest you strive to turn in your best work for every assignment. If you need help understanding your progress, schedule an appointment, and I will help you.

**Grading Scale**  
89.4 to 1000 points; 89.4% to 100%, A  
79.4 to 89.45 points; 79.46% to 89.45%, B  
≤ 59.45 points; ≤ 59.45%, F  
69.45 to 79.45 points; 69.46% to 79.45%, C  
59.45 to 69.45 points; 59.46% to 69.45%, D  

**Late Assignments**  
Late assignments will lose 10 percent for each week day they are late up to three week days. Assignments later than three week days will not be accepted, and the grade will be entered as a zero. Assignments may be made up for university-excused absences and illnesses (http://student-rules.tamu.edu/rule07).

If you miss class because of a university-excused absence or illness, you must include appropriate documentation (e.g., physician’s note or athletics travel sheet) with the corresponding assignment, or you will not be allowed to make up the work. If you will not be in class, please contact me in advance if at all possible. As most of you know by now, I am willing to work with students to deal with almost any situation—especially if I know in advance and/or if I am contacted as soon as possible. You will have one week from the date of your return to make up the missed assignment(s). After the one week, your assignment(s) will be considered late and the late policy will be enforced.

Deadlines drive the journalism and communications profession. If you struggle to meet the deadlines of the course, you should think about another career path because your job depends on deadlines in this profession. The late assignment policy was not designed as an extended deadline for each assignment; it should be used only when necessary because something happened and you cannot turn the assignment in on time. Therefore, I reserve the right to withdraw the late assignment policy if I believe it is abused.

**Coursework and Assessments**  
Any coursework or assignments completed in this course may be used, after the conclusion of the current academic semester, for research, evaluation, or demonstration purposes without students’ written consent or notification. Any method of identifying a single individual will be removed prior to using student coursework or assignments for research, evaluation, or
demonstration purposes. Any student may request to have his or her coursework or assessments excluded from research, evaluation, or demonstration efforts, without penalty, by submitting a written objection to me.

**Keys to Success**

Your role as a student is to take ownership in your education and seek opportunities to learn outside of the classroom. I will do what I can to help you succeed, but it is your responsibility to learn and become successful in your profession. **This is a time consuming course, and it will take time outside of the classroom to complete the course assignments.** It is best to begin each assignment early, so you have ample time to complete the assigned material. You will enjoy this class if you take the time to participate and engage in course activities and assignments. This course will include group assignments. Therefore, it is important that you respect your group and your group’s time as you do your part of each assignment. This course will help you become a more effective communicator and journalist, and it will provide you the skills you need to be well-rounded.

Phil Meyer, Knight Chair in Journalism in the School of Journalism at the University of North Carolina at Chapel Hill, once said, “In this environment, journalists who can do more than one thing well will be in demand. Economics and deadline pressures will ensure it.” Additionally, anything that is worth doing is worth doing well, so use your time and resources wisely and produce the best work possible in this course.

My role as the instructor is to convey knowledge and facilitate students’ learning. I believe students learn more by immersing themselves into the learning process; therefore, I make it a priority to provide students a challenging environment that is neither overwhelming nor intimidating. I believe for students to be motivated to learn and become active learners they must take ownership in their learning. They must be able to see the results and sense a feeling of accomplishment within themselves. My goal as an educator is to ease the learning process and give my students every opportunity to listen and contribute to their education as well. I am not the only source of knowledge, and students should actively engage in the learning process outside the walls of the formal classroom. I view the classroom as an engaging, blended learning environment that incorporates a variety of teaching methods. It is my role to help students succeed, encourage them in the learning process, and create an environment that they feel safe to express their needs, opinions, and beliefs.

**Attendance, Professionalism, and Class Participation**

Professionals in the agriculture, science, and natural resource industry are guided by specific values and characteristics. This course relies extensively on discussion, group projects, and other class interactions; therefore, it is recommended that you attend and participate. Illnesses will be dealt with on a case-by-case basis. If you become ill or an emergency occurs, please email me, call me, or have a parent, guardian, or roommate do so prior to class time. You can make up assignments if you provide a doctor’s note that explains your absence. You will only be able to make up the assignments that we completed on the days of your designated absence. However, some participation points cannot be made up because of the nature of the assignment.

You will receive a higher grade if you attend class. You are paying for the classes you take at Texas A&M; it is your choice to attend or not. I will not, however, be providing course notes; it
is your responsibility to obtain missed notes and lectures for a classmate. Additionally, being punctual is absolutely necessary. You are forming habits that you will one day carry with you to the workplace, and late employees often get fired.

**Americans with Disabilities Policy Statement**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit http://disability.tamu.edu.

**Special Needs Policy**
Reasonable accommodations will be made for students with verifiable disabilities. I will provide students with disabilities access to the course material in keeping with university policy. If you are registered with the Department of Student Life, Services for Students with Disabilities (DSLSSD), please provide me with an accommodation letter. This letter along with frequent communication between you and me will help you be successful in this course. If you are not currently registered with DSLSSD and think you might need to, let me know, and I will provide you with the DSLSSD's contact information. **Please make certain that you contact me for an appointment at the beginning of the semester to discuss academic accommodations.**

**Audio and Video Recording**
Because free discussion and free exchange of ideas in the classroom may be inhibited through the use of recording devices by students, such devices may not be used in the classroom during class periods except, (1) when explicit prior permission of the instructor has been obtained and when no member of the class objects to their use; or (2) when sensory or manual disabilities require that a student use a recording device. Students who require the use of recording devices because of disabilities should notify me prior to their use.

**Academic Integrity Statement and Policy**
Plagiarism consists of passing off as one's own ideas, work, writings, etc. those that belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins and destroys your credibility among your colleagues and audience. For questions regarding plagiarism, consult the latest issue of the Texas A&M University Student Rules under the section “Scholastic Dishonesty.” I expect all class members to comply with Texas A&M University policies regarding scholastic dishonesty and other issues outlined in the official student rules. As a professional in any communication field, plagiarism harms the credibility of the profession as a whole. Plagiarism of any sort will result in an F* in this course and possible dismissal from the agricultural communications and journalism program. **Aggie Honor Code: Aggies do not lie, cheat or steal, or tolerate those who do.**

**Instructor/Student Communication**
I will communicate all relevant course information to you. It is your responsibility to ask questions and ask for clarifications on any points you do not understand. Listed above in the
instructor information section are the preferred methods of communication. If you choose to email me, please allow 24 hours for me to return your email during the week and 48 hours to return your email on the weekends. I welcome and encourage individual meetings with you if you have any questions. Office hours are listed above; please feel free to stop by during that time or make an appointment for another time.

**Mobile Devices**
Mobile devices are useful and necessary devices, and we will make great use of them in this course. However, please make sure that you limit your mobile device activity to those activities that advance your learning in this course. All other times your mobile devices should be turned off and stowed away, so they do not interrupt the class during scheduled class periods. Please set the controls on these devices to a silent alert mode. If you receive a call or text message during class, please excuse yourself from the class to answer it. This will show respect and courtesy toward other members of the class and to the instructor/presenter.

**Copyrights**
All course materials are copyrighted. This includes all materials generated for this class, including but not limited to syllabi, exams, in-class materials, review sheets, lectures, handouts, and supplements. Materials may be downloaded or photocopied for personal use only and may not be given to other individuals. In copyright law, it is not the idea that is copyright, it is the language in which the idea is couched that is copyright. Thus, each of you may use the same idea to write a story, but you may not use the language of anyone else to describe that idea. **This prohibition does not apply to quotations properly attributed.** Quotations belong to the speaker, not to the publication reporting them.

**Syllabus Change**
I reserve the right to alter or change the course syllabus as necessary.

"Education is our passport to the future, for tomorrow belongs to the people who prepare for it today." — Malcolm X
<table>
<thead>
<tr>
<th>Week</th>
<th>Tentative Topics – Lecture</th>
<th>Reading Materials**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M: Emerging media concepts</td>
<td>M: SMC – Chapter 1</td>
</tr>
<tr>
<td></td>
<td>W: Emerging theories, syllabus, assignments questions and answers</td>
<td>W: SMC – Chapter 2</td>
</tr>
<tr>
<td></td>
<td>F: Emerging media platforms and tools</td>
<td>F: RL – 12</td>
</tr>
<tr>
<td>2</td>
<td>M: Best practices</td>
<td>M: SMC – Chapter 11; RL – 2, 9, 17</td>
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<tr>
<td></td>
<td>W: Branding with key messages</td>
<td>W: RL - 2, 9, 17</td>
</tr>
<tr>
<td></td>
<td>F: Analyzing audiences</td>
<td>F: RL - 10, 24</td>
</tr>
<tr>
<td>3</td>
<td>M: Analyzing audiences</td>
<td>M: RL - 16, 23</td>
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<tr>
<td></td>
<td>W: Analyzing audiences</td>
<td>W: RL - 4</td>
</tr>
<tr>
<td></td>
<td>F: Collecting emerging media content</td>
<td>F:</td>
</tr>
<tr>
<td>4</td>
<td>M: Creating emerging media content</td>
<td>M: Reading List – 1, 19</td>
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<tr>
<td></td>
<td>W: Creating a content calendar</td>
<td>W: RL - 4</td>
</tr>
<tr>
<td></td>
<td>F: Group Project</td>
<td>F:</td>
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<tr>
<td>5</td>
<td>M: Incorporating emerging media into agricultural campaigns</td>
<td>M: RL - 16, 23</td>
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<td></td>
<td>W: Personal branding</td>
<td>W: RL - 4</td>
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<tr>
<td></td>
<td>F: Group Project</td>
<td>F:</td>
</tr>
<tr>
<td>6</td>
<td>M: Brand case study presentations</td>
<td>M: RL - 16, 23</td>
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<tr>
<td></td>
<td>W: Brand case study presentations</td>
<td>W: RL - 4</td>
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<td></td>
<td>F: Group Project</td>
<td>F:</td>
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<tr>
<td>7</td>
<td>M: Creating effective LinkedIn profiles</td>
<td>M: RL - 16, 23</td>
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<tr>
<td></td>
<td>W: Writing emerging media content</td>
<td>W: RL - 4</td>
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<td></td>
<td>F: Group Project</td>
<td>F:</td>
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<tr>
<td>8</td>
<td>M: Writing emerging media content</td>
<td>M: RL - 16, 23</td>
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<tr>
<td></td>
<td>W: Strategy considerations (e.g., posting times)</td>
<td>W: RL - 4</td>
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<tr>
<td></td>
<td>F: Group Project</td>
<td>F:</td>
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<td>9</td>
<td>M: Strategy development</td>
<td>M: RL - 16, 23</td>
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<tr>
<td></td>
<td>W: Analyzing the impact of Emerging media</td>
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<td>F: Group Project</td>
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<td>10</td>
<td>M: Emerging media metrics and analytics</td>
<td>M: RL - 16, 23</td>
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<td>W: Emerging media metrics and analytics</td>
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<td>F: Group Project</td>
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<td>M: Emerging media in journalism, public relations</td>
<td>M: SMC – Chapters 3, 4; RL – 13, 18, 22</td>
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<td>W: Emerging media in advertising, marketing</td>
<td>W: SMC – Chapter 5; RL - 7</td>
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<td>F: Group Project</td>
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<td>12</td>
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<td>M: SMC – Chapter 10; RL – 14, 26</td>
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<td>W: Emerging media privacy, laws, and regulations</td>
<td>W: SMC – Chapter 10, 14, 26</td>
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<td>F: Group Project</td>
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<td>13</td>
<td>M: Emerging media ethics</td>
<td>M: SMC – Chapter 10; RL – 14, 26</td>
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<td>W: Reading Day, No Classes</td>
<td>W: SMC – Chapter 10, 14, 26</td>
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<td>F: Thanksgiving Holiday</td>
<td>F:</td>
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<tr>
<td>14</td>
<td>M: New media technologies</td>
<td>M: SMC – Chapter 7; RL – 25</td>
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<tr>
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<td>W: Professional development, careers in Emerging media &amp; professional development; work/life balance in an emerging media role</td>
<td>W: SMC – Chapter 12, RL – 8</td>
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<td>F: Group project</td>
<td>F:</td>
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<td>15</td>
<td>Final exam: Client Presentations</td>
<td>F:</td>
</tr>
</tbody>
</table>

*Exact schedule may be adjusted to take advantage of special opportunities

**Reading materials should be read before the specified class.

***SMC = Social Media Communication (Lipschultz)
Emerging Media in Agriculture Reading List


Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type: □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Biological and Agricultural Engineering

3. Course prefix, number and complete title of course: AGSM 284: Internship

4. Catalog course description (not to exceed 50 words):
Practical experience working in a professional agricultural systems management setting

5. Prerequisite(s): Junior or senior classification; approval of the instructor

6. Is this a variable credit course? □ Yes □ No If yes, from ___ to ___

7. Is this a repeatable course? □ Yes □ No If yes, this course may be taken ___ times.

Will this course be repeatable within the same semester? □ Yes □ No

8. Will this course be submitted to the Core Curriculum Council? □ Yes □ No

9. How will this course be graded: □ Grade □ S/U □ P/F (CLMB)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

   BS AGSM

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>AGSM</th>
<th>284</th>
<th>Internship</th>
</tr>
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</table>

<table>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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</table>

Approval recommended by:

Stephen W. Searcy
Department Head or Program Chair (Type Name & Sign) Date

Robert Knight
Chair, College Review Committee Date

Kim Dooley
Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services — 07/14

RECEIVED O C T 2 0 2 0 1 5 CURRICULAR SERVICES
Course title and number  AGSM 284: Internship  
Term  Summer 2017  
Meeting times and location  TBA  

Course Description  
Practical experience working in a professional agricultural systems management setting; offered on an individual basis.  

Prerequisites  
U1 or U2 classification.  

Learning Outcomes  
Upon completion of the internship experience students should have the ability to:  
1. Manage Diverse personnel groups  
2. Use advanced software tools  
3. Assemble, implement, and manage technical systems  
4. Perform economic analysis on technical systems  
5. Utilize effective decision making processes in problem solving  

Instructor Information  
Name  Mr. Russell McGee  
Telephone number  979-845-3659  
Email address  romcgee@tamu.edu  
Office hours  By appointment  
Office location  SCTS 303F  

Textbook and/or Resource Material  
None  

Grading Policies  
The course is evaluated based on submission of a written summary of the internship experience. If the student fails to submit a summary following the internship, then the student receives an Unsatisfactory grade.  

Grading Scale:  
Satisfactory .................. turned in a written summary of the internship  
Unsatisfactory .................. did not turn in a written summary of the internship  

Attendance Policy  
A component of the ethical responsibility of an employee is exhibiting good work habits and respect for the time and effort of others. Prompt completion of the assignment and considerate behavior are thus expected of all students in the course. The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.
Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: http://aggiehonor.tamu.edu
# Texas A&M University

## Departmental Request for a New Course

**Undergraduate • Graduate • Professional**

Submit original form and attach a course syllabus.

### Form Instructions

1. **Course request type:**  
   - ✓ Undergraduate  
   - □ Graduate  
   - □ First Professional (DDS, MD, JD, PharmD, DVM)

2. **Request submitted by (Department or Program Name):**  
   - Department of Biological and Agricultural Engineering

3. **Course prefix, number and complete title of course:**  
   - AGSM 484: Internship

4. **Catalog course description (not to exceed 50 words):**  
   - Practical experience working in a professional agricultural systems management setting

5. **Prerequisite(s):**  
   - □ For preceptor classification; approval of the instructor
   - Stacked with:

   Cross-listed with:

   Cross-listed courses require the signature of both department heads.

6. **Is this a variable credit course?**  
   - □ Yes  
   - ✓ No

   If yes, from ___ to ___

7. **Is this a repeatable course?**  
   - ✓ Yes  
   - □ No

   If yes, this course may be taken ___ times.

   Will this course be repeated within the same semester?  
   - □ Yes  
   - ✓ No

8. **Will this course be submitted to the Core Curriculum Council?**  
   - □ Yes  
   - ✓ No

9. **How will this course be graded?**  
   - □ Grade  
   - ✓ S/U  
   - □ P/F (CLMP)

10. **This course will be:**
    - a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    - b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   BS AGSM

11. **If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.**

12. **I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).**

### Prefix | Course # | Title (excluding punctuation)
--- | --- | ---
AGSM | 484 | Internship

<table>
<thead>
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<th>Lab</th>
<th>Other</th>
<th>SCH</th>
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<th>Acad. Year</th>
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<td>17</td>
</tr>
</tbody>
</table>

| Level | 4 |

**Approval recommended by:**

Stephen W. Searcy  
Department Head or Program Chair (Type Name & Sign)

Robert Knight  
Chair, College Review Committee

Kim Dooley  
Dean of College

Department Head or Program Chair (Type Name & Sign)  
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 07/14
Course title and number: AGSM 484: Internship
Term: Summer 2017
Meeting times and location: TBA

Course Description
Practical experience working in a professional agricultural systems management setting.

Prerequisites
U3 or U4 classification.

Learning Outcomes
Upon completion of the internship experience students should have the ability to:
1. Manage Diverse personnel groups
2. Use advanced software tools
3. Assemble, implement, and manage technical systems
4. Perform economic analysis on technical systems
5. Utilize effective decision making processes in problem solving

Instructor Information
Name: Mr. Russell McGee
Telephone number: 979-845-3659
Email address: romcgee@tamu.edu
Office hours: By appointment
Office location: SCTS 303F

Textbook and/or Resource Material
None

Grading Policies
The course is evaluated based on submission of a written summary of the internship experience. If the student fails to submit a summary following the internship, then the student receives an Unsatisfactory grade.

Grading Scale:
Satisfactory ................ turned in a written summary of the internship
Unsatisfactory ................ did not turn in a written summary of the internship

Attendance Policy
A component of the ethical responsibility of an employee is exhibiting good work habits and respect for the time and effort of others. Prompt completion of the assignment and considerate behavior are thus expected of all students in the course. The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.
Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: http://aggiehonor.tamu.edu
Form Instructions

1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DDS, MD, JD, PharmD, JWA)

2. Request submitted by:  
   - Department or Program Name: Department of Agricultural Leadership, Education, and Communications
   - Course prefix, number and complete title of course: ALEC 425 Principals of Program Evaluation

4. Catalog course description (not to exceed 50 words):  
   Evaluation principles applied to educational programs in agriculture and life science; basic understanding of skills in program evaluation processes, concepts, and theories; develop expertise needed to design and conduct evaluations of youth and adults in extension, community, and school-based programs.

5. Prerequisite(s):  
   - Junior or senior classification

6. Cross-listed with:  
   - Stacked with:
   - Cross-listed courses require the signature of both department heads.

7. Is this a variable credit course?  
   - Yes  
   - No

8. Is this a repeatable course?  
   - Yes  
   - No
   - If yes, this course may be taken _____ times.

9. Will this course be repeated within the same semester?  
   - Yes  
   - No

10. Will this course be submitted to the Core Curriculum Council?  
    - No

11. How will this course be graded?  
    - Grade
    - S/U

12. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

13. Undergraduate general academics

14. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

15. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/eresources/export-controls/export-controls-basics-for-distance-education).

16. Prefix  | Course #  | Title (excluding punctuation)  
---|---|---
ALEC | 425 | Prin of Prog Eval

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Approval recommended by:

- Tracy Rutherford  
  9/25/15  
  Department Head or Program Chair (Type Name & Sign)  
  Date

- Althea Wright  
  10/15/2015  
  Chair, College Review Committee  
  Date

- Finn Dooley  
  10/19/2015  
  Dean of College  
  Date

Submitted to Coordinating Board by:

- Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Rambur at (864) 789-2014 or sandra.rambur@tamu.edu

Curricular Services - 07/14

Questions regarding this form should be directed to Sandra Rambur at (864) 789-2014 or sandra.rambur@tamu.edu

Curricular Services - 07/14
Texas A&M University
Agricultural Leadership, Education, and Communication
ALEC 425- Principals of Program Evaluation

Course Description:
Evaluation principles applied to educational programs in agriculture and life science; basic understanding of skills in program evaluation processes, concepts, and theories; develop expertise needed to design and conduct evaluations of youth and adults in extension, community, and school-based programs.

Instructor:
Vidy Patil, AGLS 238, 979-458-7991, v-patil@tamu.edu

Office hours:
By appointment.

Course Available Online at http://ecampus.tamu.edu

Textbook:

Learning Outcomes:
- Develop a basic understanding of the total evaluation process—program selection, program objectives, stakeholder involvement, evaluation methods, implementation and use of results.
- Develop an understanding of key evaluation concepts/terms measured by chapter quizzes.
- Formulate measurable program objectives.
- Define and formulate an evaluation plan for specific programs.
- Examine and analyze various evaluation models in youth, family, and community programs.
- Discuss, critique, and evaluate the strengths and weaknesses of various evaluation models in youth, family, and community programs.
- Identify, understand, and develop information collection strategies for specific programs.
- Develop a process to use evaluation results into decision-making and program improvement.

Graded evaluation activities:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Chapter Quizzes</td>
<td>10 quizzes/20 points each</td>
</tr>
<tr>
<td>Exams</td>
<td>2 exams/150 points each</td>
</tr>
<tr>
<td>Final Exam</td>
<td>250 points</td>
</tr>
<tr>
<td>Online Discussions</td>
<td>10 posts/5 points each</td>
</tr>
<tr>
<td>Evaluation Report</td>
<td>200 points</td>
</tr>
<tr>
<td><strong>Total course points</strong></td>
<td><strong>1000 points</strong></td>
</tr>
</tbody>
</table>

Late Assignments:
All assignments are due by the date listed in the course outline unless otherwise noted. Assignment deadlines are strictly enforced. However, late assignments will be accepted without penalty provided if there is an excused absence (see the student rule 7 for detail at http://student-rules.tamu.edu/rule07). Students may turn in late work according to the university policy “student rules.” Otherwise 10 points of the total possible points will be deducted for every weekday for any assignment turned in late and will not be accepted for submission if it is more than one week late.
Course grade:

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Classes Schedule

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<th>Week</th>
<th>Course Topic</th>
<th>Readings</th>
<th>Assignments</th>
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<tr>
<td>Week 1</td>
<td>Introduction</td>
<td>Chapters 1</td>
<td>Introduction and Chapter 1 Discussion and Quiz</td>
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<tr>
<td></td>
<td>What is Evaluation?</td>
<td></td>
<td>Chapter 1 Discussion and Quiz</td>
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<tr>
<td>Week 2</td>
<td>Why Evaluate?</td>
<td>Chapter 2</td>
<td>Tittle Due</td>
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<td>Week 3</td>
<td>Turn <strong>title</strong> of your evaluation report to Instructor on eCampus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 4</td>
<td>Decision Making: Who to Involve, How, and Why?</td>
<td>Chapter 3</td>
<td>Chapter 3 Discussion and Quiz</td>
</tr>
<tr>
<td>Week 5</td>
<td><strong>Exam I</strong></td>
<td>Chapter 1-3</td>
<td><strong>Exam I Due</strong></td>
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<td>Week 6</td>
<td>Starting Point: The Evaluator's Program Description</td>
<td>Chapter 4</td>
<td>Chapter 4 Discussion and Quiz</td>
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<td>Week 7</td>
<td>Choosing an Evaluation Model</td>
<td>Chapter 5</td>
<td>Chapter 5 Discussion and Quiz</td>
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<tr>
<td>Week 8</td>
<td>Data Sources</td>
<td>Chapters 6</td>
<td>Chapters 6 Discussion Quiz</td>
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<td>Week 9</td>
<td><strong>Mid Term Exam</strong></td>
<td>Chapters 4-6</td>
<td><strong>Mid Term Exam Due</strong></td>
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<tr>
<td>Week 10</td>
<td>Data Analysis</td>
<td>Chapter 7</td>
<td>Chapter 7 Discussion and Quiz</td>
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<td>Week 11</td>
<td>Is It Evaluation or Is It Research?</td>
<td>Chapter 8</td>
<td>Chapter 8 Discussion and Quiz</td>
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<td>Week 12</td>
<td>Writing the Evaluation Report</td>
<td>Chapter 9</td>
<td>Chapter 9 Discussion and Quiz</td>
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<tr>
<td>Week 13</td>
<td>Evaluation as a Business</td>
<td>Chapter 10</td>
<td>Chapter 10 Discussion and Quiz</td>
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<td>Week 14</td>
<td><strong>Project Due</strong></td>
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<td>Week 15</td>
<td><strong>Final Exam</strong></td>
<td>Chapters 7-10</td>
<td><strong>Final Exam Due</strong></td>
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Description of Assignments

Chapter Quizzes:
Quizzes may be multiple choices, true/false, short answer, essay, matching or other formats. You will have 30 minutes to complete each quiz. **All quizzes must be completed by 11:59 pm every Friday.**

Exams:
Students will participate in three exams. Exams may be multiple choices, short answer, essay, matching or other formats.
Online Discussion:
Students will participate in online discussions with respect to material covered in the course using the PowerPoint and textbook as a guide. The assignment will be graded on your ability to frame and lead the discussion, synthesize relevant points, and reference the literature. Students may receive up to a maximum of 5 points for each posting. Students must respond to required postings as indicated on syllabus to receive credit. All discussions must be posted by 11:59 pm every Friday. *Rubrics for all Discussions will be provided on eCampus.

Evaluation Report:
You will select an organization or a project that you like to evaluate. The topic and title for your evaluation report must be approved by the instructor no later than fourth week of class. The evaluation report must be 10 pages long, not including a cover page or references. The plan must be double-spaced, Times New Roman, 12-point font, and follow APA (American Psychological Association, 2009) guidelines. The cover page should include the title of the report and your name. Upload it to the final project on eCampus. Look at appendix B for example. Evaluation Report DUE end of the semester. *Rubric for Evaluation Report will be provided on eCampus.

APA:
The Publication Manual of the American Psychological Association (American Psychological Association, 2009) is the primary style guide for several disciplines and fields of study, including agricultural education. It provides systematic and consistent rules for grammar, punctuation, spelling, quoting, manuscript format, presentation of tabular or graphic data, citations within the text, and referencing. It should not hinder your personal writing style. Applying American Psychological Association (APA) rules to your writing (a) helps writers learn APA style requirements, (b) helps readers focus on the manuscript’s content, and (c) suggests high-quality scholarly writing. When preparing and submitting papers, manuscripts, and other assignments for this course, you will follow the APA rules. Adherence to these rules will be considered in the grading of all assignments.

Copyrights:
Please note that all handouts and supplements used in this course are copyrighted. This includes all materials generated for this class, including but not limited to syllabi, exams, in-class materials, review sheets, and lecture outlines. Materials may be downloaded or photocopied for personal use only, and may not be given or sold to other individuals.

Americans with Disabilities Act:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity:
"An Aggie does not lie, cheat or steal or tolerate those who do." For more information, students should refer to the Honor Council Rules and Procedures on the web at http://www.tamu.edu/aggiehonor

Syllabus Change:
Revision to this syllabus will be made at the discretion of the instructor.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Animal Science
3. Course prefix, number and complete title of course: ANSC 470: Quality Assurance For The Food Industry

4. Catalog course description (not to exceed 50 words):
Principles of food system process control including statistical process control (SPC) and the tools required to assure uniform communication and understanding of quality assurance systems.

5. Prerequisite(s):
Cross-listed with: FSTC 470
Stacked with: ANSC/FSTC 670
Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☐ Yes ☑ No
If yes, from _______ to _______.
7. Is this a repeatable course? ☐ Yes ☑ No
If yes, this course may be taken _______ times.
8. Will this course be repeated within the same semester? ☑ No
9. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No
10. How will this course be graded?: ☑ Grade ☐ S/U ☐ P/F (CLMD)
This course will be:
a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
Undergraduate students in Animal Science and in Food Science

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)
ANSC 470 Quality Assurance Food Ind

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
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<th>SCH</th>
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<td>010901005</td>
<td>0270</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

Approval recommended by:

H. Russell Cross
Department Head or Program Chair (Type Name & Sign) Date

Robert Knight
Chair, College Review Committee Date

Mark Hussey
Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UC
Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
ANSC/FSTC 470/670 - QUALITY ASSURANCE FOR THE FOOD INDUSTRY - FALL SEMESTER 2016

INSTRUCTOR: W.N. Osburn
338D Kleberg; Ph: 979-845-3989; E-mail: osburnw@tamu.edu
Office Hours: Fridays 10-12:00 or By Appointment.

LECTURE:
TTH 8:00-9:15; KLCT 300

OBJECTIVES:
1. To provide an understanding of the principles of quality and primary strategies for implementation of Quality Systems in the food industry.
2. To provide a fundamental basis for the principles of food system process control including statistical process control (SPC) and the "tools" required to assure uniform communication and understanding of quality assurance systems.
3. Use quality teams to provide knowledge and application of philosophical and analytical tools required for successful implementation of quality assurance programs in the food industry.

STUDENT LEARNING OUTCOMES:
By the end of this course, students will be able to
1. Apply critical thinking skills to define a problem, identify potential causes and possible solutions, and make thoughtful recommendations.
2. Work as a member of a team to solve a problem and report findings via oral and written communication.
3. Develop product standards and specifications.
4. Use statistical process control techniques to construct control charts.
5. Explain the interrelationship between food safety and quality systems.

SUPPLEMENTAL READING (No required texts)
Covey, S. 1989. The Seven Habits of Highly Effective People, Simon & Schuster. NY.
Specific readings will be established for classroom discussion.

Grading and Class Assignments/Projects:
All students must take three class exams and one class final.

<table>
<thead>
<tr>
<th>Exam dates</th>
<th>Class Exams (All Students)</th>
<th>Points</th>
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<td>Team Quality Problem Solving Project Presentation</td>
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<td>Dec 20XX</td>
<td>Personal Mission Statement</td>
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<td>Participation and Class Attendance</td>
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**DESCRIPTION OF UNDERGRADUATE STUDENT ASSIGNMENTS:** The following assignments are requirements for undergraduate students in this course.

a) Assignment I: "Quality Guru" paper
   Students will select one "founder" or "guru" of "Quality Systems" and write a one to two page paper on how their philosophy of quality impacted current quality management systems.

b) Assignment II: Statistical Process Control
   Take home assignments on statistical process control (SPC) include calculations of Z values and process capability and construction of X-bar and R charts, Np charts, etc. Dates vary during the semester.

c) Assignment III: Team Project Report and Presentation Assignment
   1. You will be formed into Quality Improvement Teams (3-4 persons per team)
   2. Each team will be given a scenario with a dataset involving quality issues or problems of a specific food product (Dairy, cereals and grains, fruits and vegetables, muscle foods, etc.).
   3. Utilizing the scenario information, plus skills learned in lecture and lab (Team problem solving, Tools of quality, SPC) your team is to use the six step problem solving process to:
      a. utilize data provided to construct statistical process control charts;
      b. from the control charts and information given - identify and define the problem,
      c. determine the cause(s) of the problem based on your statistical analysis,
      d. generate potential solutions to solve the cause(s) of the problem,
      e. analyze each potential solution for its advantages and disadvantages,
      f. recommend the "best" solution (feasible, suitable, cost effective, etc.), and
      g. develop an action plan and timeline for implementing the proposed solution and how the solution will be evaluated to determine its effectiveness.
   4. Each team will prepare a written report and PowerPoint slide presentation to the fictional Chief Operating Officer and/or President of the respective company that you are working for.
   5. A separate handout detailing what is expected of each team will be provided.

d) Assignment IV: Mission Statement Preparation (Covey).
   Each student will be responsible to develop and critique a personal mission statement using the principles and procedures outlined by Covey. This statement will be required and will be based on software program materials to be made available for student use found at the address:
DESCRIPTION OF GRADUATE STUDENT ASSIGNMENTS: The following assignments are requirements for graduate students in this course.

a) Assignment I: Quality Food Systems Research Paper
Students will write a research proposal framework/outline for an eight to ten page research paper explaining how quality management systems can be used to solve a specific food production system (dairy, fruits and vegetables, cereal grains, muscle foods, beef, pork or poultry production systems, etc.) problem area and explain how the application of quality systems principles could positively impact the quality and/or efficiency of that food system.

b) Assignment II: Statistical Process Control
Several take home assignment on statistical process control (SPC). Assignments will include calculations of Z values and process capability and construction of X-bar and R charts, Np charts, etc. Dates vary throughout the semester.

c) Assignment III: Team Project Report and Presentation Assignment
1. You will be formed into Quality Improvement Teams (3-4 persons per team)
2. Each graduate student team must collect their own dataset to be used to develop SPC charts and identifying areas for quality improvements. This dataset can be from research projects or collected from various Animal Science/Food Science facilities (Meat Science Center, Extrusion Lab, etc.) or other food/campus entity.
3. Utilizing the scenario information, plus skills learned in lecture and lab (Team problem solving, Tools of quality, SPC) your team is to use the six step problem solving process to:
   a. utilize data provided to construct statistical process control charts;
   b. from the control charts and information given - identify and define the problem,
   c. determine the cause(s) of the problem based on your statistical analysis,
   d. generate potential solutions to solve the cause(s) of the problem,
   e. analyze each potential solution for its advantages and disadvantages,
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d) Assignment IV: Mission Statement Preparation (Covey).
Each student will be responsible to develop and critique a personal mission statement using the principles and procedures outlined by Covey. This statement will be required and will be based on software program materials to be made available for student use found at the address: http://www.covey.com/customer/missionform.html.
I. **Principles for Total Quality Management**
   a. Defining Quality
   b. Philosophies - Deming, Crosby, Juran, Shewhart

II. **Quality Leadership**
    a. Project team development
    b. Quality Improvement Cycle
    c. Teambuilding, Communication and Interpersonal Skills

III. **Quality Problem Solving**
     a. Quality Problem Solving and Management
     b. Problem Solving Process
        i. Problem Identification, Definition, Diagnosis
        ii. Alternative Generation and Evaluation
     c. Types of Quality Problem
        i. Conformance and Efficiency Problems
        ii. Product Design and Process Problems
     d. Team Problem Solving
        i. Blueprint for successful teams
        ii. Conflict Resolution

IV. **Quality Management Systems**
    a. Total Quality Management
    b. ISO 9000, FSC 22000, SQF, BRC
    c. Six Sigma and Lean Manufacturing

V. **The Quality Improvement Process**
    a. The Ten-Step Quality Improvement Process

VI. **Statistical Process Control**
    a. Variation and distributions
    b. Central tendency
    c. Probability and hypothesis testing
    d. Control charts
       i. X bar and R charts
       ii. P, np and c charts
    e. Process capability

VII. **The Quality Tool Box - Selected Tools for Continuous Quality Improvement**
     a. Project Planning and Implementation Tools
     b. Data Collection and Analysis Tools
     c. Evaluation and Decision-Making Tools

VIII. **Applications of Quality Improvement**
     a. Team Project Report and Presentations

IX. **Interrelationship Between Quality Assurance/Control and Food Safety Programs**
### Course Schedule

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Date</th>
<th>Topic</th>
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<tr>
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<td>History of Quality</td>
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<td>Quality Leadership - Team Building - Undergraduate Quality Gurus Paper Due</td>
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<td>Quality Problem Solving</td>
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<td>Quality Management Systems</td>
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<td>Statistical Process Control - Interrelationship Between Quality Assurance/Control and Food Safety Programs</td>
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<td>15</td>
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<td>Team Project Assignments and Scenarios</td>
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<td>23</td>
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<td>7 Habits Of Highly Effective People</td>
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<td>24</td>
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<td>7 Habits Of Highly Effective People</td>
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<td>25</td>
<td></td>
<td>7 Habits Of Highly Effective People - Graduate Student Quality Food System Research Paper Due</td>
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<td>26</td>
<td></td>
<td>Thanksgiving</td>
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<td>27</td>
<td></td>
<td>Prep for BRC/SQF training - Mission Statement Due</td>
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<td>28</td>
<td></td>
<td>Exam III</td>
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<td>29</td>
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<td>Prep for BRC/SQF training - Class Evaluations</td>
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<td>Final Exam</td>
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### COURSE REQUIREMENTS

**Attendance:** Since student participation during discussion sessions is an important aspect of this course, students are expected to attend all sessions. Attendance will be documented using an attendance sheet that must be signed by students in class. Absences will be excused only upon approval of instructors in advance of the class session in question. Five points per unexcused absence will be deducted from your final grade. For more information see TAMU Student Rule 7 – Attendance: [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)
Make-up Work/Auditing Policy

Regular attendance and participation in the course is expected of all students. Anticipated absences should be cleared with the instructor prior to the absence, if possible. Emergency absences (serious illness, injury, death, etc.) should be reported as soon as possible. An excuse may be necessary for more than three absences. Those students auditing the course are expected to participate in all class sessions. Make-up work will be allowed under extenuating circumstances for which written excuses are provided.

Americans with Disabilities Act

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 979-845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity and Honesty

It is the personal responsibility of each student to maintain the highest level of scholastic integrity at the university by refusing to participate in or tolerate any form of scholastic dishonesty. Additional information may be obtained from the Student Handbook or at the Handbook website http://student-rules.tamu.edu/index.htm, http://student-rules.tamu.edu/rules20.htm.

Copyright

The handouts used in this course are copyrighted. By "handout", I mean all materials generated for this class, which include but are not limited to syllabi, in-class materials, and handouts. You do not have the right to copy the handouts, unless I expressly grant permission.

Plagiarism

Plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. You are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues.

Aggie Code of Honor

For many years, Aggies have followed a Code of Honor in an effort to unify the aims of all Aggies toward a high code of ethics and dignity. It functions as a symbol to all Aggies, promoting understanding and loyalty in truth and confidence in each other. "Aggies do not lie, cheat or steal; or tolerate those who do." If you have any questions regarding plagiarism or cheating, please consult the Texas A&M University Student Rules, under the section Scholastic Dishonesty. http://aggiehonor.tamu.edu.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (D.DS, M.D., J.D., Pharm.D., D.V.M.)
2. Request submitted by (Department or Program Name): Department of Anthropology
3. Course prefix, number and complete title of course: ANTH 435 - Medical Anthropology

4. Catalog course description (not to exceed 50 words):
Overview of medical anthropology, a subfield in anthropology which examines the biological and cultural basis of health and disease in order to understand the influence of culture on the illness experience and treatment.

5. Prerequisite(s): junior or senior classification or approval of instructor.
Cross-listed with: Stacked with:

6. Is this a variable credit course? ☐ Yes ☑ No If yes, from ________ to ________
7. Is this a repeatable course? ☐ Yes ☑ No If yes, this course may be taken ________ times.
Will this course be repeated within the same semester? ☐ Yes ☑ No
8. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No
9. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F [CLME]
10. This course will be:
a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. in Anthropology, Minor in Anthropology

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controlexceptions-distance-education).

13. Prefix Course # Title (excluding punctuation)

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Approval recommended by:

Ted Goebel
Department Head or Program Chair (Type Name & Sign) Date

Chair College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 07/14

Received Curricular Services

OCT 2 5 2015
Course title and number  Medical Anthropology 435
Term  Fall 2016
Meeting times and location  TR 9:35-10:50 a.m.

Course Description and Prerequisites

Medical anthropology is a subfield in anthropology that draws from the four main subfields of anthropology — cultural, biological, linguistic, and archaeology — to examine the biological and cultural basis of health and disease, and to understand the influence of culture on the illness experience and treatment. This is a course designed to provide an overview of the main theoretical perspectives and key areas of empirical research currently employed in the subfield. We will focus on five broad areas: (1) Theories, applications and methods; (2) Contexts and conditions; (3) Health and behavior; (4) Health care, treatment, and communication; and (5) Looking ahead.

This course is designed for undergraduate anthropology majors or minors interested in relationship between health and illness, and culture. This course counts as an anthropology-cultural or the other elective for undergraduate anthropology majors or towards the anthropology minor for non-majors. There are no prerequisites, but junior or senior classification is required and completion of Anthropology 205 or 210 is highly recommended prior to enrolling in this course.

Learning Outcomes

By the end of the course a student will be able to:

- Describe medical anthropology and the different theoretical perspectives and methodologies employed in the subfield.
- Identify the different contexts and conditions within which people live and illustrate how they impact their experience of health and illness and the treatments they employ. (2 and 3)
- Define health, explain the differences between illness and disease, and demonstrate how individual behavior relates to health.
- Examine the great diversity of medical systems in existence worldwide, the utilization of treatments from these different systems to improve health, and the role of patient-provider communication in the treatment process.
- Differentiate emerging issues in the subdiscipline and the types of associated career paths.
- Analyze, synthesize and evaluate course material using reading, writing, critical thinking, and collaboration skills.

Instructor Information

Name  Allison Hopkins
Telephone number  979-845-5242
Email address  
Office hours  MW 1:30-3pm or by appointment
Office location  277 ANTH

Textbook and/or Resource Material

The course materials consist of the material listed in the Course Reading List below. The textbook for the course is:

Singer, Merrill, and Hans A. Baer
The book chapters, besides those associated with the textbook, and the journal articles will be made available to you on eCampus.

**Grading Policies**

**Letter Grading Scale:**
- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = <60%

**Grading Assignments:**
- **Exams** (40%): There will be two exams. Questions on the exams will be multiple choice and they will be from material presented in lecture and the required readings. The exams will not be cumulative.

- **Exam Essay Questions** (30%): There will be two essay questions assigned for completion at home. The essays are designed to complement the in-class exams. The student is required to respond to each essay question by drawing upon and synthesizing materials that have already been presented in class. The response should be typed, double-spaced, 12-point font, and 2 pages in length.

At the beginning of the semester each student will be assigned to a discussion group with 2 other students and assigned 1 of 3 roles for each week. The roles are recorder, reporter, and summarizer. The roles relate to the following activities:

- **Summary Assignments** (20%): There will be four assignments that each student will be involved in, which will be completed in a small group outside of class. The summarizers will meet and summarize the key concepts, definitions, debates, and other relevant information that was discussed in the small group discussions, and the large group wrap-up sessions. The group assignment should be typed and two pages in length. The assignment will be distributed to all of the students in the class and serve as a study guide for the exams.

- **Participation** (10%): Students are expected to have completed the required readings before class, engage with the instructor during lecture, participate in discussion with peers during small group discussion and large group wrap-up sessions, and participate in all other class activities. The recorder will take notes during the small group discussion, which they will then share with the reporter who will report to the large group on what was discussed in the small group discussion. Then the summarizer will take the notes and use them to complete the summary assignment. A participation score will be assigned for each class. The two lowest participation scores will be dropped from the student's final participation grade.

**Attendance and Make-up Policies**

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located online at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07) and should be consulted and followed in the case of an absence. In order for an absence to be considered excused the student must provide the instructor with satisfactory evidence to support the reason for the absence. In cases where advance notification is not feasible (e.g. accident, or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class. If the absence is excused, the instructor will provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. The instructor will not provide an opportunity for the student to make up work missed because of an unexcused absence.
# Course Topics, Calendar of Activities, Major Assignment Dates*

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<tr>
<th>Week/Day</th>
<th>Topic</th>
<th>Required Reading</th>
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<td>1</td>
<td><strong>PART I: THEORIES, APPLICATIONS, AND METHODS</strong></td>
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<td><strong>R:</strong> Introduction and History</td>
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<td>Definitions, history, &amp; theory: Key debates:</td>
<td>(Singer and Baer 2012:1-41)</td>
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<td></td>
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<td>(Singer and Erickson 2011:1-6)</td>
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<td></td>
<td>(Sobo 2011:7-28)</td>
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<td></td>
<td><strong>T:</strong> Week 1 Summary Assignment Due</td>
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<td><strong>R:</strong> Theoretical Perspectives</td>
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<td>Overview:</td>
<td>(Brown, et al. 2009:3-15)</td>
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<td>Evolutionary and ecological:</td>
<td>(McEiroy 2004:1-8)</td>
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<td>(Leatherman and Goodman 2011:29-48)</td>
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<td><strong>R:</strong> Research Design and Methods</td>
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<td>Overview:</td>
<td>(Singer and Baer 2012:43-75)</td>
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<td>(Gravlee 2011:69-91)</td>
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<td>Cultural framework for health research:</td>
<td>(Kagawa-Singer, et al. 2015:5-27 only)</td>
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<td><strong>R:</strong> Applied Approaches</td>
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<td><strong>PART II: CONTEXTS AND CONDITIONS</strong></td>
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<td><strong>R:</strong> Health Disparities</td>
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<tr>
<td></td>
<td>Overview:</td>
<td>(Singer and Baer 2012:175-205)</td>
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<tr>
<td></td>
<td>Race and ethnicity:</td>
<td>(Dressler, et al. 2005:231-252)</td>
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<td><strong>T:</strong> Week 5 Summary Assignment Due</td>
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<td><strong>R:</strong> Health and the Environment</td>
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<td>Overview, including globalization:</td>
<td>(Singer and Baer 2012:207-240)</td>
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<td>Ecology of disease:</td>
<td>(Townsend 2011:181-195)</td>
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<td>Water and health:</td>
<td>(Whiteford and Padros 2011:197-208)</td>
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<td>Culture change and stress:</td>
<td>(Dressler 2011:117-134)</td>
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<td><strong>T:</strong> Week 6 Summary Assignment Due</td>
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<td><strong>R:</strong> Global Health</td>
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<td></td>
<td>Overview:</td>
<td>(Janes and Corbett 2011:135-157)</td>
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<td>Syndemics:</td>
<td>(Singer, et al. 2011:159-179)</td>
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<td><strong>PART III: HEALTH AND BEHAVIOR</strong></td>
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<td><strong>T:</strong> Exam 1 Essay Question Due</td>
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<td></td>
<td><strong>R:</strong> Health, Illness, and Disease</td>
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<tr>
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<td>Overview:</td>
<td>(Singer and Baer 2012:77-115)</td>
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<td>Infectious diseases:</td>
<td>(Brown, et al. 2011:251-270)</td>
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<td>Chronic illness-cancer:</td>
<td>(Manderson 2011:323-338)</td>
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<td>Week 8 Summary Assignment Due</td>
<td>Reproductive Health</td>
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<td>Week 9 Summary Assignment Due</td>
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<td>Week 10 Summary Assignment Due</td>
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<td>Ethnopharmacology:</td>
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<td>Week 11 Summary Assignment Due</td>
<td>Medical Pluralism</td>
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<td>PART V: LOOKING AHEAD</td>
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<td>FINALS WEEK</td>
<td>Exam 2 Essay Question Due</td>
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Counseling and Career Services

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- Career Center, career planning and employment preparation, 209 Koldus Building, (979) 845-5138, https://careercenter.tamu.edu/

Course Reading List:

Baer, Hans A.

Brown, Antonette, and Adam Koons

Brown, Peter J., George J. Armelagos, and Kenneth C. Maes

Brown, Peter J., et al.

Coe, Kathryn. Gail Barker, and Craig Palmer

Dressler, William W.
Dressler, William W., Kathryn S. Oths, and Clarence C. Gravlee  

Eisenberg, Merrill  

Erickson, Pamela L.  

Etkin, Nina L.  

Fadiman, Anne  

Fiske, Shirley  

Gravlee, Clarence C.  

Himmelgreen, David A., Nancy Romero Daza, and Charlotte A. Noble  

Janes, Craig R., and Kitty K. Corbett  

Jordan, Brigitte, and Robbie Davis-Floyd  

Jordan, Brigitte, and Robbie Davis-Floyd  

Kagawa-Singer, Marjorie, et al.  
2015 The cultural framework for health: An integrative approach for research and program design and evaluation: NIH: Office of Behavioral and Social Sciences Research.

Leatherman, Tom, and Alan H. Goodman  

Loewe  

Manderson, Lenore  

McElroy, Ann  

McElroy, Ann, and Patricia K. Townsend  

Page, J. Bryan  

Quinlan, Marsha B.  
Quintero, Gilbert, and Mark Nichter

Sargent, Carolyn, and Lauren Gulbas

Singer, Merrill

Singer, Merrill, and Hans A. Baer

Singer, Merrill, and Pamela I. Erickson

Singer, Merrill, et al.

Smith-Nonini, Sandy, and Beverly Bell

Sobo, Elisa J.

Townsend, Patricia K.

Trotter, Robert T.

Whiteford, Linda M., and Cecilia Vindrola Pardos

Wiley, Andrea S, and John Scott Allen
Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DO, MD, JD, PharmD, DMD)
2. Request submitted by (Department or Program Name): Department of Anthropology
3. Course prefix, number and complete title of course:
   - ANTH 437 - Ethnobotany
4. Catalog course description (not to exceed 50 words):
   Interdisciplinary study of the complex and dynamic relationships that exist between people and plants.
5. Prerequisite(s):
   - Junior or senior classification or approval of instructor.
   - Cross-listed with:
   - Stacked with:
   - Cross-listed courses require the signature of both department heads.
6. Is this a variable credit course? Yes
   - If yes, from _______ to _______
7. Is this a repeatable course? Yes
   - If yes, this course may be taken _______ times.
8. Will this course be repeated within the same semester? Yes
9. Will this course be submitted to the Core Curriculum Council? Yes
10. How will this course be graded: Yes
     - Grade
     - S/U
     - P/F (CLMD)
11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
13. Prefix Course # Title (excluding punctuation):
   - ANTH 437 Ethnobotany

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Approval recommended by:
Ted Goebel
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:
Chair, GC or UCC Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 07/14
Course title and number  Ethnobotany 437
Term  Fall 2016
Meeting times and location  TR 2:20-3:35 p.m.

Course Description and Prerequisites
Ethnobotany is an interdisciplinary field focused on the study of the complex and dynamic relationships that exist between people and plants. A variety of fields of study are employed to varying degrees in ethnobotanical research, including anthropology, botany, ecology, biochemistry, and economics. This course is designed to provide an introduction to the discipline and the major areas of study primarily from the sub-disciplinary perspective of cultural anthropology. We will focus on three broad areas: (1) Foundational concepts and methodologies; (2) Domains; and (3) Research approaches.

This course is designed for undergraduate anthropology majors or minors interested in the contemporary relationship between people and plants. This course counts as an anthropology-cultural or the other elective for undergraduate anthropology majors or towards the anthropology minor for non-majors. There are no prerequisites, but junior or senior classification is required and completion of Anthropology 205 or 210 is highly recommended prior to enrolling in this course.

Learning Outcomes

- Describe ethnobotany, the different disciplinary perspectives and methodologies
- Examine ethical issues in the field.
- Explain the different domains of study within the discipline.
- Describe the array of research topics and approaches studied and integrate them with the primary perspectives of cultural anthropology.

Instructor Information

Name  Allison Hopkins
Telephone number  979-845-5242
Email address
Office hours  MW 1:30-3 p.m. or by appointment
Office location  227 ANTH

Textbook and/or Resource Material
The course materials consist of the book chapters and journal articles listed in the Course Reading List below. These will be made available to you on eCampus.
Grading Policies

Letter Grading Scale:
A = 90%–100%
B = 80%–89%
C = 70%–79%
D = 60%–69%
F = <60%

Grading Assignments:
Exams (40%): There will be two exams. Questions on the exams will be multiple choice and they will be from material presented in lecture and the required readings. The exams will not be cumulative.

Exam Essay Questions (30%): There will be two essay questions assigned for completion at home. The essays are designed to complement the in-class exams. The student is required to respond to each essay question by drawing upon and synthesizing materials that have already been presented on in class. The response should be type, double-spaced, 12-point font, and 2 pages in length.

At the beginning of the semester each student will be assigned to a discussion group with 2 other students and assigned 1 of 3 roles for each week. The roles are recorder, reporter, and summarizer. The roles relate to the following activities:

Summary Assignments (20%): There will be four assignments that each student will be involved in, which will be completed in a small group outside of class. The summarizers will meet and summarize the key concepts, definitions, debates, and other relevant information that was discussed in the small group discussions, and the large group wrap-up sessions. The group assignment should be typed and two pages in length. The assignment will be distributed to all of the students in the class and serve as a study guide for the exams.

Participation (10%): Students are expected to have completed the required readings before class, engage with the instructor during lecture, participate in discussion with peers during small group discussion and large group wrap-up sessions, labs, and in all other class activities. The recorder will take notes during the small group discussion, which they will then share with the reporter who will report to the large group on what was discussed in the small group discussion. Then the summarizer will take the notes and use them to complete the summary assignment. A participation score will be assigned for each class. The two lowest participation scores will be dropped from the student’s final participation grade.

Attendance and Make-up Policies

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located online at http://student-rules.tamu.edu/rule07 and should be consulted and followed in the case of an absence. In order for an absence to be considered excused the student must provide the instructor with satisfactory evidence to support the reason for the absence. In cases where advance notification is not feasible (e.g. accident, or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class. If the absence is excused, the instructor will provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. The instructor will not provide an opportunity for the student to make up work missed because of an unexcused absence.
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<tr>
<td>Week 1</td>
<td>Introduction to Course</td>
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<td>Global history and scope: (Cotton 1996a:1-18)</td>
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<td>Modern research currents: (Nolan and Turner 2011:133-148)</td>
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<td>Research Design and Methods</td>
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<td>Overview: (Martin 1995c:1-25)</td>
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<td>Ethnobiological advances: (Stepp 2005:211-218)</td>
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<td>Anthropological methods: (Martin 1995a:95-135)</td>
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<td>Week 3</td>
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<td>Ethics</td>
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<td>Overview: (Hardison and Bannister 2011:27-50)</td>
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<td>Biodiversity prospecting: (Moran, et al. 2001:505-526)</td>
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<td>Ethical research: (Gilmore and Eshbaugh 2011:51-64)</td>
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<td>Week 4</td>
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<td>Botany</td>
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<td>Plant structures, functions, and applications: (Cotton 1996b:19-58)</td>
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<td>Methods: (Martin 1995b:27-65)</td>
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<td>Part II: Ethnobotanical Domains</td>
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<td>Week 5</td>
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<td>Methods: (Martin 1995e:67-93)</td>
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<td>Source of medicinal plants, by family: (Moerman 1991:1-42)</td>
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<td>Or, by location: (Stepp 2004:163-166)</td>
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<td>Week 6</td>
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|       | Numen: The Healing Power of Plants-
documentary on herbal medicine |
| Week 7 | Food |
|       | Traditional agricultural systems: (Anderson 2011:305-318) |
|       | Agrobiodiversity: (Veteto and Skarbø 2009:73-87) |
|       | Growing Together-documentary on community garden |
|       | https://www.youtube.com/watch?v=aW2_b_oGo4Q |
|       | Food and culture: (Anderson 2014:1-9,124-139,235-244) |
|       | Traditional food: (McCune and Kuhnlein 2011:249-266) |
| Week 8 | Week 7 Summary Assignment Due |
|       | Nutritional Ethnobotany Lab |
|       | Exam 1 Essay Question Due |
|       | Exam 1: Covering Parts I and II |
|    | R: Classification Systems | Overview: (Hunn and Brown 2011:319-333) |
|    | Herbal medicine selection: | |
| 13 | T: Week 12 Summary Assignment Due | Culture Change | Overview: (Gómez-Baggethun and Reyes-García 2013:643-647) Modernization: |
|    | R: Migration-Southern Italy: | Migration-Dominican: (Quave and Pieroni 2007:204-227) |
|    | Migration-Dominican: | (Ososhi, et al. 2007:14-38) |
|    | R: Career Options | |
| 15-FINALS | **Exam 2 Essay Question Due** | **Exam 2: Covering Part III** |

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- Career Center, career planning and employment preparation, 209 Koldus Building, (979) 845-5139, https://careercenter.tamu.edu/

Course Reading List:

Boster, James Shilton

Brett, J.A.


Cotton, C. M.


Cotton, C. M.


Cunningham, Anthony B.


Etkin, Nina L.


Etkin, Nina L., Tamara Ticktin, and Heather L. McMillen


Gilmore, Michael P., and W. Hardy Eshbaugh


Gómez-Baggethun, Erik, and Victoria Reyes-García


Hardison, Preston, and Kelly Bannister


Hunn, Eugene S., and Cecil H. Brown


Johns, Timothy


Johnson, Leslie Main, and Iain Davidson-Hunt


Maffi, Luisa


Martin, GaryJ


Martin, GaryJ


Martin, GaryJ


Martin, GaryJ


Martin, GaryJ

McCune, Letitia M., and Harriet V. Kuhnlein

Mendonça De Carvalho, Luís Manuel

Moerman, Daniel E.

Moran, Katy, Steven R King, and Thomas J Carlson

Nabhan, Gary Paul

Nolan, Justin M., and Nancy J. Turner

Osoaki, Andreana L, Michael J Balick, and Douglas C Daly

Phillips, Oliver, and Alwyn H Gentry

Prance, Ghilean T, et al.

Quave, Cassandra L., and Andrea Pieroni

Ross, Norbert, and Caissa Revilla-Minaya

Stepp, John R

Stepp, John Richard

Ticktin, Tamara, et al.

Veteto, J. R., and K. Skarbø

Viladrich, Anaíl

Zarger, Rebecca K.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  
   Health and Kinesiology

3. Course prefix, number and complete title of course:  
   ATTR 201 Field Experience in Athletic Training I

4. Catalog course description (not to exceed 50 words):  
   Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in professional behaviors, injury prevention and risk management.

5. Prerequisite(s):  
   Kinesiology majors
   Cross-listed with:  
   Smacked with:

   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  
   - Yes  
   - No  
   If yes, from ____ to ____

7. Is this a repeatable course?  
   - Yes  
   - No  
   If yes, this course may be taken ____ times.

   Will this course be repeated within the same semester?  
   - Yes  
   - No

8. Will this course be submitted to the Core Curriculum Council?  
   - Yes  
   - No

9. How will this course be graded?  
   - Grade  
   - S/U  
   - P/F (CLMD)

10. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

    3+2 Kinesiology/MS Athletic Training

    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments.  
    Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control-basics-for-distance-education).

13. Prefix:  
   Course #:  
   Title (excluding punctuation):  
   ATTR 201  
   FIELD EXPERIENCE ATHL TRNG I

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Approval recommended by:  
Richard Kreider  
Department Head or Program Chair (Type Name & Sign)  
Date

Chris Cherry  
Chair, College Review Committee  
Date

Chris Cherry  
Dean of College  
Date

Tim Scott  
Chair, GC or UCC  
Date

Submitted to Coordinating Board by:  
Associate Director, Curricular Services  
Date  
Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
ATTR 201: Field Based Experience in Athletic Training I
Texas A&M University
Department of Health and Kinesiology

Term: Fall 2017
Instructor: AT Staff, MS, ATC, LAT
Office: TBD
Phone: TBD
E-mail: TBD
Office Hrs: TBD
Classroom: TBD
Day/Time: TBD

Course Description:
Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in professional behaviors, injury prevention and risk management. Prerequisite: KINE major.

Required Text:

Learning Outcomes: Students will be able to:
A. Identify the requirements for admission to and retention in the Texas A&M University Master of Science in Athletic Training program.
B. Summarize athletic training history, development, scope of practice and associated professional organizations.
C. Practice the domains of athletic training under the supervision of a Certified Athletic Trainer or other medical/allied health professional.
D. Utilize principles of confidentiality when dealing with personal health information.
E. Learn and practice professionalism and ethical conduct.
F. Demonstrate effective communication skills with a variety of populations utilizing ethnic and cultural sensitivity.
G. Perform appropriate disinfectant procedures to prevent the spread of infectious diseases and to comply with OSHA regulations.
H. Identify the necessary components in a pre-participation physical examination
I. Apply preventive taping and wrapping procedures, splints, braces, and other special protective devices.
J. Appreciate the importance of risk management programs and the development of an emergency action plan.
K. Recognize serious potentially life threatening conditions and less serious injuries that must be referred to a physician.
L. Apply a variety of techniques for the purpose of stabilization, immobilization and transportation during injury management.
M. Fabricate and apply various prophylactic devices including taping, padding, bracing, splinting.
N. Determine the proper usage of cryotherapy and superficial thermotherapy to treat injuries.

**Evaluation Procedures:** Grades awarded in this class will be calculated as a simple percentage of the total number of points possible. The specific point values for each of the various evaluative criteria appear below, as well as the grading scale to be applied to earned percentage values.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Exam</td>
<td>50</td>
</tr>
<tr>
<td>Practical Exam</td>
<td>50</td>
</tr>
<tr>
<td>Quizzes: 7 quizzes worth 10 points each</td>
<td>70</td>
</tr>
<tr>
<td>Medical terminology handout</td>
<td>25</td>
</tr>
<tr>
<td>Reflection Journal: 10 points x 14 weeks</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>335</td>
</tr>
</tbody>
</table>

*To receive a grade in this course you must complete at least 40 of the 45 hours of field experience and a reflection journal. A grade of D or F will not allow you to take the next course in the sequence, ATTR 202 Field Experience in Athletic Training II.*

**Grading System:**
90% and above A; 80-89% B; 70-79% C; 60-69% D; Below 60% F

**Weekly meeting:**
1. Meet 1 hour each week for knowledge acquisition and skill development.
2. Attend and participate in class activities.
3. Dress appropriately for class activities (see dress code below).

**Field Experience:**
1. Students will rotate to each Texas A&M University athletic training room to observe at least three hours per week for a total of 45 hours. Hour logs must have all 45 hours recorded and signed at the bottom by the supervisor to receive course credit.
2. Students may volunteer to assist staff with games or events.
3. Students should dress appropriately for field experience (refer to Student Internship Handbook).
4. Students will complete assigned duties as directed by supervisor.
5. Students should adhere to Student Internship Handbook and site policies and procedures.
6. Students will maintain a clinical experience reflection journal.
   a. A reflection journal is an opportunity for students to critically review their week of clinical experiences and discuss what they learned through observation, hands on experience or through interactions with patients, peers, coaches and preceptors. A reflection journal is not a simple diary of events for the week. Instead, students are encouraged to reflect on what they learned during the week either through direct interaction or observation. Students are allowed one (1) late journal submission without
penalty. Further late journal submissions will result in a zero (0) score. Students are expected to use correct terminology, grammar and spelling. Students should create a Word document with each week’s reflection journal in the same file. Reflection journals will be emailed to the course instructor at the end of the semester.

Course Policies:
**Dress Code:** All students must dress appropriately for lab sessions and examinations. Failure to dress appropriately for lab sessions will count as an absence from lab. Failure to dress appropriately for lab examinations will result in a zero "0" for that examination. Appropriate dress includes the following: exercise shorts (wearing tights underneath is acceptable), sport bras for women, men will need to remove shirts for torso and upper extremity injury evaluation.

**Course Preparation:** Students are expected to
1. Be prepared for each class/lab by reading the necessary materials prior to the class.
2. Actively participate in classroom activities and discussions.
3. Use professional communication skills including proper terminology during discussions and group activities.
4. Behave professionally and respectfully to peers and instructor.

**Attendance Policy:** Attendance requirements will be as described in the Texas A&M University Student Rules handbook ([http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)). TAMU views class attendance as an individual student’s responsibility. Students are expected to attend class and to complete all assignments. Instructors are expected to give adequate notice of the dates on which major tests will be given and assignments will be due. Absences will be authorized for reasons deemed sufficient by the instructor or by the university. When an absence is authorized, the instructor must either provide the student an opportunity to make up tests, assignments and other work missed or provide a satisfactory alternative to be completed within 30 days of the excused absence. The manner in which make-up work is administered remains the prerogative of the instructor. The instructor is under no obligation to provide an opportunity for the student to make up work missed because of unauthorized absence. The student may appeal the instructor’s decision that an absence is unauthorized.

**Professional Conduct:** Students are expected to conduct themselves professionally at all times and to adhere to the guidelines published in the Texas A&M University Student Rules Handbook. Professional conduct entails but is not limited to attending classes on time, showing respect for the instructor and fellow classmates, being prepared for class, dressing appropriately and turning completed assignments in on time.

**Cell Phones (and other IM Devices) and IPods:** Cell phones, IPods, and other IM devices should be turned OFF during class – not in silent/vibrate or other mode.
Students must not answer incoming calls or text (or other mode of communication) during class. These are to be turned off and put away **before** entering the classroom. If you have a situation (family illness, etc.), and you need to be contacted, notify the instructor to acquire permission to keep the device on vibrate and then step out of the room before answering.

**Academic Integrity Statement and Policy:** The handling of possible incidents of academic dishonesty will be as described in the *Texas A&M University Student Rules* handbook. Students are encouraged to review Section 20 at [http://student-rules.tamu.edu/search/rule20.htm](http://student-rules.tamu.edu/search/rule20.htm) of the *Texas A&M University Student Rules* as well as [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu). Students who do not understand any part of Section 20 should consult the instructor of this course. All work to be completed for this class is to be individual work unless otherwise noted. “An Aggie does not lie, cheat, or steal, or tolerate those who do.”

**Plagiarism:** As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, consult the latest issue of the *Texas A&M University Student Rules*, under the section concerning Scholastic Dishonesty.

**Americans with Disabilities Act (ADA) Policy Statement:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Additional Notes:** The instructor reserves the right to modify this course syllabus at any time. Students will receive verbal notification of such modifications.
# KINE 201: Field Based Experience in Athletic Training I

## Tentative Course Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING</th>
<th>QUIZZES/ASSIGNMENTS</th>
</tr>
</thead>
</table>
| 1    | -Introduction to Aggie Athletic Training  
-Admission and retention in MSAT program  
-Volunteer student program | http://hlknweb.tamu.edu/degrees-and-programs/graduate-degree-programs/athletic-training |                  |
| 2    | -Athletic Training history and development  
-Scope of practice  
-Work settings  
-Salary  
-Professional organizations: NATA, SWATA, TSATA | Chp. 1  
http://www.nata.org  
http://www.swata.org  
http://www.tsata.org |                  |
| 3    | -Professionalism and ethical conduct  
-NATA Code of Ethics  
-Legal Aspects  
-Patient confidentiality | Chp. 1, Chp. 3  
Aggie Student Athletic Training Handbook | Quiz 1 |
| 4    | -Record keeping and medical documentation  
-BBP, OSHA regulations | Chp. 2, 14 | Quiz 2 |
| 5    | Pre-participation physical examination | Chp. 2 | Quiz 3 |
| 6    | -Emergency Action Plans  
-Stabilization, immobilization and transportation techniques | Chp. 12 | EAP Assignment |
<p>| 7    | Cryotherapy and thermotherapy application techniques | Chp. 15 | Quiz 4 |
| 8    | Fitness and conditioning | Chp. 4 | Quiz 5 |
| 9    | Nutrition and supplements | Chp. 5 | Quiz 6 |
| 10   | Environmental | Chp. 6 | Quiz 7 |</p>
<table>
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<th>Considerations</th>
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<tr>
<td>11 Exam I: Written</td>
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<tr>
<td>12 Taping and wrapping procedures, splints, braces, and other special protective devices: lower extremity</td>
<td>Chp. 7, 8</td>
</tr>
<tr>
<td>13 Taping and wrapping procedures, splints, braces, and other special protective devices: lower extremity</td>
<td>Chp. 7, 8</td>
</tr>
<tr>
<td>14 Taping and wrapping procedures, splints, braces, and other special protective devices: upper extremity</td>
<td>Chp. 7, 8</td>
</tr>
<tr>
<td>15 Exam II: Practical</td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  □ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  Health and Kinesiology

3. Course prefix, number and complete title of course:  ATTR 202 Field Experience in Athletic Training II

4. Catalog course description (not to exceed 50 words):  Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in recognition and evaluation of common injuries and illnesses and their management.

5. Prerequisite(s):

   ATTR 201

   Cross-listed with:

   Stacked with:

   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  □ Yes  □ No
   If yes, from ______ to ______

7. Is this a repeatable course?  □ Yes  □ No
   If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester?  □ Yes  □ No

8. Will this course be submitted to the Core Curriculum Council?  □ Yes  □ No

9. How will this course be graded:  □ Grade  □ S/U  □ P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      3+2 Kinesiology/MS Athletic Training
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)

   ATTR  202  FIELD EXPERIENCE ATHL TRNG II

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   4.00  1.00  5109130002  1402  16 - 17  0 0 3 6 3 2

   Approval recommended by:

   Richard Kreider
   Department Head or Program Chair (Type Name & Sign)  Date

   Chris Cherry
   Chair, College Review Committee  Date

   Chris Cherry
   Dean of College  Date

   Tim Scott
   Chair, GC or UCC  Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services  Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8901 or sandra-williams@tamu.edu.
Curricular Services – 07/14
ATTR 202: Field Based Experience in Athletic Training II  
Texas A&M University  
Department of Health and Kinesiology

Term: Spring 2018  
Instructor: AT Staff, MS, ATC, LAT  
Office: TBD  
Phone: TBD  
E-mail: TBD  
Office Hrs: TBD  
Classroom: TBD  
Day/Time: TBD

Course Description:
Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in recognition and evaluation of common injuries and illnesses and their management. Prerequisite: ATTR 201

Required Text:

Learning Outcomes: Students will be able to
A. Practice the domains of athletic training under the supervision of a Certified Athletic Trainer or other medical/allied health professional.  
B. Utilize principles of confidentiality when dealing with personal health information.  
C. Learn and practice professionalism and ethical conduct.  
D. Demonstrate effective communication skills with a variety of populations utilizing ethnic and cultural sensitivity.  
E. Explain the etiology and prevention guidelines associated with the leading causes of sudden death during physical activity.  
F. Recognize the signs and symptoms of common athletic injuries and illnesses.  
G. Communicate with medical personnel and other members of the sports medicine team using common medical terminology.  
H. Perform a basic evaluation for common athletic injuries.  
I. Describe the principles of environmental illness prevention programs and management.

Evaluation Procedures: Grades awarded in this class will be calculated as a simple percentage of the total number of points possible. The specific point values for each of the various evaluative criteria appear below, as well as the grading scale to be applied to earned percentage values.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Exam</td>
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Quizzes: 7 quizzes worth 10 points each 70 points
Medical terminology handout 25 points
Reflection Journal: 10 points x 14 weeks 140 points 335 points

*To receive a grade in this course you must complete at least 40 of the 45 hours of field experience and a reflection journal. A grade of D or F will not allow you to take the next course in the sequence, ATTR 301 Field Experience in Athletic Training I.

Grading System:
90% and above A; 80-89% B; 70-79% C; 60-69% D; Below 60% F

Weekly meeting:
1. Meet 1 hour each week for knowledge acquisition and skill development.
2. Attend and participate in class activities.
3. Dress appropriately for class activities (see dress code below).

Field Experience:
1. Students will rotate to each Texas A&M University athletic training room to observe at least three hours per week for a total of 45 hours. Hour logs must have all 45 hours recorded and signed at the bottom by the supervisor to receive course credit.
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**Additional Notes:** The instructor reserves the right to modify this course syllabus at any time. Students will receive verbal notification of such modifications.
# KINE 202: Field Based Experience in Athletic Training II

## Tentative Course Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING</th>
<th>QUIZZES/ASSIGNMENTS</th>
</tr>
</thead>
</table>
| 1    | -Introduction  
      | -Field Assignments |         |                     |
| 2    | Injury classifications and terminology | Chp. 9 | Medical Terminology handout |
| 3    | Injury Evaluation Process | Chp. 13 |                     |
| 4    | Injury recognition and evaluation: Foot | Chp. 18 |                     |
| 5    | Injury recognition and evaluation: Ankle/Leg | Chp. 19 | Quiz 1               |
| 6    | Injury recognition and evaluation: Knee | Chp. 20 | Quiz 2               |
| 7    | Injury recognition and evaluation: Thigh/Hip/Pelvis | Chp. 21 | Quiz 3               |
| 8    | Injury recognition and evaluation: Shoulder | Chp. 22 | Quiz 4               |
| 9    | Injury recognition and evaluation: Elbow/Wrist/Hand | Chp. 23, Chp. 24 |                     |
| 10   | Injury recognition and evaluation: Spine | Chp. 25 | Quiz 5               |
| 11   | Injury recognition and evaluation: Head and face | Chp. 26 |                     |
| 12   | General Medical Conditions | Chp. 29 | Quiz 6               |
| 13   | General Medical Conditions | Chp. 29 | Quiz 7               |
| 14   | Exam I: Written |         |                     |
| 15   | Exam II: Practical |         |                     |
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  
   Health and Kinesiology

3. Course prefix, number and complete title of course:  
   ATTR 301 Field Experience in Athletic Training

4. Catalog course description (not to exceed 50 words):  
   Field based experience in athletic training to provide on-the-job training designed to
   enhance and clarify career objectives; knowledge and skill development in the treatment and rehabilitation of athletic injuries.

5. Prerequisite(s):  
   ATTR 202
   Cross-listed with:  
   Stacked with:  
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  
   ☐ Yes  ☑ No  
   If yes, from ________ to ________

7. Is this a repeatable course?  
   ☐ Yes  ☑ No  
   If yes, this course may be taken ________ times.
   Will this course be repeated within the same semester?  
   ☐ Yes  ☑ No

8. Will this course be submitted to the Core Curriculum Council?  
   ☑ Yes  ☐ No

9. How will this course be graded:  
   ☑ Grade  ☐ S/U  ☐ P/F (CLM/MD)

10. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)  
       3+2 Kinesiology/MS Athletic Training  
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export- 
    controls/export-controls-basics-for-distance-education).

13. Prefix  
   Course #  
   Title (excluding punctuation)  
   ATTR 301  
   FIELD EXPERIENCE ATHL TRNG

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<tr>
<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
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<th>Acad. Year</th>
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</table>

Approval recommended by:  
Richard Kreider  
Department Head or Program Chair (Type Name & Sign)  
Date  

Chris Cherry  
Chair, College Review Committee  
Date

Chris Cherry  
Dean of College  
Date

Tim Scott  
Chair, GC or UCC  
Date

Submitted to Coordinating Board by:  
Associate Director, Curricular Services  
Date  
Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
ATTR 301: Field Based Experience in Athletic Training I
Texas A&M University
Department of Health and Kinesiology

Term: Fall 2018
Instructor: AT Staff, MS, ATC, LAT
Office: TBD
Phone: TBD
E-mail: TBD
Office Hrs: TBD
Classroom: TBD
Day/Time: TBD

Course Description:
Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in the treatment and rehabilitation of athletic injuries. Prerequisite: ATTR 202

Required Text:

Learning Outcomes: Students will be able to
A. Practice the domains of athletic training under the supervision of a Certified Athletic Trainer or other medical/allied health professional.
B. Utilize principles of confidentiality when dealing with personal health information.
C. Learn and practice professionalism and ethical conduct.
D. Demonstrate effective communication skills with a variety of populations utilizing ethnic and cultural sensitivity.
E. Apply therapeutic modalities and therapeutic exercises commonly used in athletic training.
F. Develop an awareness of therapeutic medications typically used in athletic training.
G. Incorporate psychological interventions into treatment plans.

Evaluation Procedures: Grades awarded in this class will be calculated as a simple percentage of the total number of points possible. The specific point values for each of the various evaluative criteria appear below, as well as the grading scale to be applied to earned percentage values.

Written Exam 50 points
Practical Exam 50 points
Quizzes: 7 quizzes worth 10 points each 70 points
Pharmacology Assignment 25 points
Reflection Journal: 10 points x 14 weeks 140 points

335 points
*To receive a grade in this course you must complete at least 40 of the 45 hours of field experience and a reflection journal. A grade of D or F will not allow you to take the next course in the sequence, ATTR 302 Field Experience in Athletic Training II.

Grading System:
90% and above A; 80-89% B; 70-79% C; 60-69% D; Below 60% F

Weekly meeting:
1. Meet 1 hour each week for knowledge acquisition and skill development.
2. Attend and participate in class activities.
3. Dress appropriately for class activities (see dress code below).

Field Experience:
1. Students will be assigned to gain general athletic training room experience at a designated Texas A&M athletic training facility or will be assigned to a specific sport for at least three hours per week for a total of 45 hours. Hour logs must have all 45 hours recorded and signed at the bottom by the supervisor to receive course credit.
2. Students may volunteer to assist staff with games or events.
3. Students should dress appropriately for field experience (refer to Student Internship Handbook).
4. Students will complete assigned duties as directed by supervisor.
5. Students should adhere to Student Internship Handbook and site policies and procedures.
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2. Actively participate in classroom activities and discussions.
3. Use professional communication skills including proper terminology during discussions and group activities.
4. Behave professionally and respectfully to peers and instructor.

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this class is to be individual work unless otherwise noted. 

"An Aggle does not lie, cheat, or steal, or tolerate those who do."

Plagiarism: As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, consult the latest issue of the Texas A&M University Student Rules, under the section concerning Scholastic Dishonesty.

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Additional Notes: The instructor reserves the right to modify this course syllabus at any time. Students will receive verbal notification of such modifications.
# KINE 301: Field Based Experience in Athletic Training II

## Tentative Course Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING</th>
<th>QUIZZES/ASSIGNMENTS</th>
</tr>
</thead>
</table>
| 1    | -Introduction  
     -MSAT Application process                                           |                          |                     |
<p>| 2    | Injury Response and Phases of Healing                                 | Chp. 10                  |                     |
| 3    | Therapeutic interventions during the acute inflammatory phase         | Chp. 15                  |                     |
|      |                                                                     | Supplemental Reading     |                     |
| 4    | Therapeutic Modalities for Phase I: Cold modalities                   | Chp. 15                  |                     |
|      | Compression                                                          | Supplemental Reading     |                     |
|      | Elevation                                                            |                          |                     |
|      | Pulsed Ultrasound                                                    |                          |                     |
|      | Electrical Stimulation                                               |                          |                     |
| 5    | Therapeutic Exercise for Phase I: Cryokinetics                        | Chp. 16                  | Quiz 1              |
|      | Isometric Exercises                                                  | Supplemental Reading     |                     |
|      | Controlled ROM – CPM                                                  |                          |                     |
|      | Proprioception                                                       |                          |                     |
|      | CV Conditioning                                                       |                          |                     |
| 6    | Therapeutic interventions during the proliferation phase               | Chp. 15, 16              | Quiz 2              |
| 7    | Therapeutic Modalities for Phase II: ICD                              | Chp. 15                  |                     |
|      | Thermal Ultrasound                                                   | Supplemental Reading     |                     |
|      | Electrical stimulation                                               |                          |                     |
|      | Heat modalities                                                      |                          |                     |
|      | Traction                                                             |                          |                     |
|      | Massage                                                              |                          |                     |
| 8    | Therapeutic Exercise for Phase II: Manual therapy                     | Chp. 16                  | Quiz 3              |
|      | PROM                                                                 | Supplemental Reading     |                     |
|      | AROM                                                                 |                          |                     |
|      | PRE                                                                  |                          |                     |
|      | Proprioception                                                       |                          |                     |
|      | Functional exercise                                                  |                          |                     |
|      | CV Conditioning                                                       |                          |                     |
| 9    | Therapeutic interventions during the repair phase                     | Chp. 15, 16              | Quiz 4              |</p>
<table>
<thead>
<tr>
<th></th>
<th>Therapeutic Modalities for Phase III: Heat modalities Thermal US Electrical stimulation Massage</th>
<th>Chp. 15 Supplemental Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Therapeutic Exercise for Phase III: PRE Proprioception Speed and agility Sport specific exercises CV conditioning</td>
<td>Chp. 16 Supplemental Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quiz 5</td>
</tr>
<tr>
<td>11</td>
<td>Drug classifications and therapeutic medications</td>
<td>Chp. 17</td>
</tr>
<tr>
<td>12</td>
<td>Psychosocial interventions for injuries and illnesses</td>
<td>Chp. 11</td>
</tr>
<tr>
<td>13</td>
<td>Resume writing</td>
<td>Quiz 7</td>
</tr>
<tr>
<td>14</td>
<td>Exam I: Written</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Exam II: Practical</td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type:  ☒ Undergraduate  ☐ Graduate  ☐ First Professional (DO, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  Health and Kinesiology

3. Course prefix, number and complete title of course:  ATTR 302 Field Experience in Athletic Training II

4. Catalog course description (not to exceed 50 words):  Field based experience in athletic training to provide on-the-job training designed to enhance and clarify career objectives; knowledge and skill development in athletic training administration; exploration of policy and position statements; professional development.

5. Prerequisite(s):  ATTR 301

6. Is this a variable credit course?  ☐ Yes  ☒ No  If yes, from ________ to ________

7. Is this a repeatable course?  ☐ Yes  ☒ No  If yes, this course may be taken ________ times.

8. Will this course be repeated within the same semester?  ☐ Yes  ☐ No

9. Will this course be submitted to the Core Curriculum Council?  ☐ Yes  ☒ No

10. How will this course be graded?  ☒ Grade  ☐ S/U  ☐ P/F (CLMD)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
-----------|----------|---------------------------------|
ATTR | 302 | FIELD EXPERIENCE ATHL TRNG II

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<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>1.00</td>
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<td>1402</td>
<td>16</td>
<td>17</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by:

Richard Kreider  
Department Head or Program Chair (Type Name & Sign)  Date

Chris Cherry  
Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date

Dean of College  Date

Tim Scott  
Chair, GC or UCC  Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Level 3

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
ATTR 302: Field Based Experience in Athletic Training II
Texas A&M University
Department of Health and Kinesiology

Term: Spring 2019
Instructor: AT Staff, MS, ATC, LAT
Office: TBD
Phone: TBD
E-mail: TBD
Office Hrs: TBD
Classroom: TBD
Day/Time: TBD

Course Description:
Field based experience in athletic training to provide on-the-job training designed to
enhance and clarify career objectives; knowledge and skill development in athletic
training administration; exploration of policy and position statements; professional
development. Prerequisite: ATTR 301

Required Text:

Learning Outcomes: Students will be able to
A. Practice the domains of athletic training under the supervision of a Certified
   Athletic Trainer or other medical/allied health professional.
B. Utilize principles of confidentiality when dealing with personal health information.
C. Learn and practice professionalism and ethical conduct.
D. Demonstrate effective communication skills with a variety of populations utilizing
   ethnic and cultural sensitivity.
E. Understand the different managerial roles assumed by athletic trainers.
F. Coordinate the purchasing of athletic training equipment, supplies, and services
   so as to maximize the use of program funds.
G. Manage an athletic training program’s inventory of equipment and supplies.
H. Describe the different types of information to be managed in a typical sports
   medicine program.
I. Input information into an information management software program.
J. Understand privacy regulations for handling personal health information and
   educational records (HIPPA, FERPA).
K. Record patient evaluation findings and plan of care using SOAP notes.
L. Access applicable consensus and position statements that are standard of care
   within the profession.
M. Describe the process for becoming a Certified Athletic Trainer and a Licensed
   Athletic Trainer.
N. Differentiate between academic and professional preparation of different medical
   and allied health care professionals.
O. Recognize and evaluate general medical conditions to make referral decisions.

**Evaluation Procedures:** Grades awarded in this class will be calculated as a simple percentage of the total number of points possible. The specific point values for each of the various evaluative criteria appear below, as well as the grading scale to be applied to earned percentage values.

<table>
<thead>
<tr>
<th>Written Exam</th>
<th>100 points</th>
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</thead>
<tbody>
<tr>
<td>Quizzes: 7 quizzes worth 10 points each</td>
<td>70 points</td>
</tr>
<tr>
<td>Administration assignment</td>
<td>25 points</td>
</tr>
<tr>
<td>Reflection Journal: 10 points x 14 weeks</td>
<td><strong>140 points</strong></td>
</tr>
<tr>
<td></td>
<td>335 points</td>
</tr>
</tbody>
</table>

*To receive a grade in this course you must complete at least 40 of the 45 hours of field experience and a reflection journal.*

**Grading System:**
90% and above A; 80-89% B; 70-79% C; 60-69% D; Below 60% F

**Weekly meeting:**
1. Meet 1 hour each week for knowledge acquisition and skill development.
2. Attend and participate in class activities.
3. Dress appropriately for class activities (see dress code below).

**Field Experience:**
1. Students will be assigned to gain general athletic training room experience at a designated Texas A&M athletic training facility or will be assigned to a specific sport for at least three hours per week for a total of 45 hours. Hour logs must have all 45 hours recorded and signed at the bottom by the supervisor to receive course credit.
2. Students may volunteer to assist staff with games or events.
3. Students should dress appropriately for field experience (refer to Student Internship Handbook).
4. Students will complete assigned duties as directed by supervisor.
5. Students should adhere to Student Internship Handbook and site policies and procedures.
6. Students will maintain a clinical experience reflection journal.
   a. A reflection journal is an opportunity for students to critically review their week of clinical experiences and discuss what they learned through observation, hands on experience or through interactions with patients, peers, coaches and preceptors. A reflection journal is not a simple diary of events for the week. Instead, students are encouraged to reflect on what they learned during the week either through direct interaction or observation. Students are allowed one (1) late journal submission without penalty. Further late journal submissions will result in a zero (0) score. Students are expected to use correct terminology, grammar and spelling.
Students should create a Word document with each week’s reflection journal in the same file. Reflection journals will be emailed to the course instructor at the end of the semester.

Course Policies:
Dress Code: All students must dress appropriately for lab sessions and examinations. Failure to dress appropriately for lab sessions will count as an absence from lab. Failure to dress appropriately for lab examinations will result in a zero “0” for that examination. Appropriate dress includes the following: exercise shorts (wearing tights underneath is acceptable), sport bras for women, men will need to remove shirts for torso and upper extremity injury evaluation.

Course Preparation: Students are expected to
1. Be prepared for each class/lab by reading the necessary materials prior to the class.
2. Actively participate in classroom activities and discussions.
3. Use professional communication skills including proper terminology during discussions and group activities.
4. Behave professionally and respectfully to peers and instructor.

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Additional Notes: The instructor reserves the right to modify this course syllabus at any time. Students will receive verbal notification of such modifications.
# KINE 302: Field Based Experience in Athletic Training II

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<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>READING</th>
<th>QUIZZES/ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction; course expectations; field assignments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Managerial roles of athletic trainers</td>
<td>Chp. 1 Supplemental Reading</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Budget and purchasing</td>
<td>Chp. 2 Supplemental Reading</td>
<td>Quiz 1</td>
</tr>
<tr>
<td>4</td>
<td>Inventory management</td>
<td>Chp. 2 Supplemental Reading</td>
<td>Quiz 2</td>
</tr>
<tr>
<td>5</td>
<td>Injury management software</td>
<td>Chp. 2 Supplemental Reading</td>
<td>Quiz 3</td>
</tr>
<tr>
<td>6</td>
<td>Human resource management</td>
<td>Chp. 2 Supplemental Reading</td>
<td>Quiz 4</td>
</tr>
<tr>
<td>7</td>
<td>Professional communication and conflict management</td>
<td></td>
<td>Quiz 5</td>
</tr>
<tr>
<td>8</td>
<td>Privacy regulations for personal health information and educational records (HIPPA, FERPA)</td>
<td>Chp. 2 Supplemental Reading</td>
<td>Quiz 6</td>
</tr>
<tr>
<td>9</td>
<td>Record keeping using SOAP notation system</td>
<td>Chp. 13 Supplemental Reading</td>
<td>Quiz 7</td>
</tr>
<tr>
<td>10</td>
<td>NATA consensus and position statements</td>
<td><a href="http://www.nata.org/access-read/public/position-statements">http://www.nata.org/access-read/public/position-statements</a></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Obtaining athletic training credentials (ATC and LAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Added credentials and continuing education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Transition to professional phase of MSAT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Ask the expert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Ask the expert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Exam Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Exam I: Written</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  
   - Undergraduate [ ]
   - Graduate [ ]
   - First Professional (ODS, M.D., J.D., Pharm.D., DVM) [ ]

2. Request submitted by (Department or Program Name):
   Department of Biological and Agricultural Engineering

3. Course prefix, number and complete title of course:
   BAEN 284: Internship

4. Catalog course description (not to exceed 50 words):
   Practical experience working in a professional biological and agricultural engineering setting.

5. Prerequisite(s):
   or other classification; approval of the instructor

Cross-listed with: ___________________________ Stacked with: ___________________________

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  
   - No [ ]
   - Yes [ ]
   If yes, from ___ to ___

7. Is this a repeatable course?  
   - No [ ]
   - Yes [ ]
   If yes, this course may be taken ___ times.

Will this course be repeated within the same semester?  
   - Yes [ ]
   - No [ ]

8. Will this course be submitted to the Core Curriculum Council?  
   - Yes [ ]
   - No [ ]

9. How will this course be graded?  
   - Pass/Fail (P/F) [ ]
   - S/U [ ]
   - Other [ ]

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   BS BAEN

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vnr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>BAEN</th>
<th>284 Internship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
<td>Lab</td>
</tr>
<tr>
<td>0.00</td>
<td>0.00</td>
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</tbody>
</table>

Approval recommended by:

Stephen W. Searcy
Department Head or Program Chair (Type Name & Sign)
Date

Valerie L. Scott
Department Head or Program Chair (Type Name & Sign)
Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandr.williams@tamu.edu
Curricular Services - 07/14
Course title and number  BAEN 284: Internship  
Term  Summer 2017  
Meeting times and location  TBA  

Course Description  
Practical experience working in a professional biological and agricultural engineering setting; offered on an individual basis.  

Prerequisites  
U1 or U2 classification.  

Learning Outcomes  
Upon completion of the internship experience students will have the ability to:  
1. Formulate and solve engineering problems.  
2. Communicate effectively through a written report of the internship experience.  
3. Apply the techniques, skills and engineering tools necessary for solving complex engineering problems.  

Instructor Information  
Name  Dr. Patricia Smith  
Telephone number  979-845-3630  
Email address  patti-smith@tamu.edu  
Office hours  By appointment  
Office location  SCTS 303 L  

Textbook and/or Resource Material  
None  

Grading Policies  
The course is evaluated based on submission of a written summary of the internship experience. If the student fails to submit a summary following the internship, then the student receives an Unsatisfactory grade.  

Grading Scale:  
Satisfactory .................. turned in a written summary of the internship  
Unsatisfactory ................ did not turn in a written summary of the internship  

Attendance Policy  
A component of the ethical responsibility of an engineer is exhibiting good work habits and respect for the time and effort of others. Prompt completion of the assignment and considerate behavior are thus expected of all students in the course. The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related
to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic Integrity**

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 428- Microcontrollers and Communications in Medical Devices
4. Catalog course description (not to exceed 50 words):
Principles of embedded system architecture and programming; fundamentals and theoretical foundations of wireless communication systems; hands-on experiences of how an embedded system could be used to solve problems in biomedical engineering; projects on wireless sensors and imaging for medical devices.

5. Prerequisite(s):
   BMEN 211, or approval of instructor

6. Is this a variable credit course? □ Yes ☑ No
   If yes, from _____ to _____

7. Is this a repeatable course? □ Yes ☑ No
   If yes, this course may be taken _____ times.

   Will this course be repeated within the same semester? □ Yes ☑ No
   If yes, how many times?

8. Will this course be submitted to the Core Curriculum Council? □ Yes ☑ No

9. How will this course be graded:
   ☑ Grade □ S/U □ P/F (CLAD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S, Ph.D. in geography)

   RS in Biomedical Engineering

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

11. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

12. Prefix Course # Title (excluding punctuation)

<table>
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<tr>
<th>BMEN</th>
<th>428</th>
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Approval recommended by:

Kristen Maitland 10/15/15

Chair, College Review Committee

Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
Course title and number  BMEN 428, Microcontrollers and Communications in Medical Devices
Term  Fall 2016
Meeting times and location  MW 4:10-6:25, 5039 ETB

Course Description and Prerequisites
Prerequisite: BMEN 211, or approval of instructor
This course will cover the principles of embedded system architecture and programming as well as an introduction of wireless communication systems. It will provide hands-on experiences of how an embedded system could be used to solve problems in biomedical engineering, culminating in projects on wireless wearable sensors and imaging for medical devices.

Learning Outcomes
Students will become familiar with different architectures and be able to choose the appropriate architecture for a given engineering problem. They will gain experience in programming microcontrollers, create basic conditioning circuits for sensors, and their interfaces with microcontrollers. They will learn to identify and implement the appropriate wireless protocol for a given problem while maintaining security of privileged patient information. Students will create basic real-time signal processing and conditioning techniques for microcontrollers.

Instructor Information
Name  Dr. Roozbeh Jafari
Telephone number  979-862-6088
Email address  rjafari@tamu.edu
Office hours  TBA
Office location  5019 ETB

Textbook and/or Resource Material
Required:
- MSP430 Microcontroller Basics, Author: John H. Davies, Publisher: Newnes (September 4, 2008), ISBN: 0750682760

Optional:

Grading Policies

A=90-100%
B=80-89%
C=70-79%
D=60-69%
F<59%

Midterm exam  25%
Final exam 25%
Project 40%
Homework and Quiz 10%

Attendance and Make-up Policies

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.

Course Topics, Tentative Calendar of Activities

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Embedded Computing</td>
</tr>
<tr>
<td>2</td>
<td>Architecture, Instruction Set and Clocks</td>
</tr>
<tr>
<td>3</td>
<td>Polling and Interrupts</td>
</tr>
<tr>
<td>4</td>
<td>Low Power Modes</td>
</tr>
<tr>
<td>5</td>
<td>Timers</td>
</tr>
<tr>
<td>6</td>
<td>Digital IO Interfaces</td>
</tr>
<tr>
<td>7</td>
<td>Analog to Digital Converters (ADCs) and Digital to Analog Converters (DACs) <em>Midterm Exam</em></td>
</tr>
<tr>
<td>8</td>
<td>Sensor Conditioning Circuits</td>
</tr>
<tr>
<td>9</td>
<td>Serial Communications</td>
</tr>
<tr>
<td>10</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>11</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>12</td>
<td>Signal Processing and Conditioning</td>
</tr>
<tr>
<td>13</td>
<td>Application Case Studies with Physiological Sensors</td>
</tr>
<tr>
<td>14</td>
<td>Final Project Demonstrations <em>Project Due</em></td>
</tr>
<tr>
<td>15</td>
<td><em>Final Exam</em></td>
</tr>
</tbody>
</table>

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B116, or call 845-1537. For additional information visit http://disability.tamu.edu

Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

*An Aggie does not lie, cheat, or steal, or tolerate those who do.*
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate  ❌ Graduate  ❌ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 448- Healthcare Technology in the Developing World

4. Catalog course description (not to exceed 50 words):
Principles of operation for major types of medical equipment; physiology underlying the measurement; major functional (system) pieces for each instrument; typical problems/applications of each instrument.

5. Prerequisite(s): MATH 152, PHYS 208, and approval of instructor
Cross-listed with: Stacked with:

6. Is this a variable credit course? Yes ☑ No
7. Is this a repeatable course? Yes ☑ No
If yes, from ______ to ______
If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? Yes ☑ No

9. Will this course be submitted to the Core Curriculum Council? Yes ☑ No

10. How will this course be graded? ☑ Grade ☑ S/U ☑ P/F (CLMD)
This course will be:
a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
BS in Biomedical Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://mpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
BMEN  448  HEALTHCARE TECH DEVEL WORLD

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>6.00</td>
<td>3.00</td>
<td>1405010006</td>
<td>0450</td>
<td>16 - 17</td>
<td>0 0 3 6 3 2</td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sara.williams@tamu.edu
Curricular Services – 07/14

RECEIVED
OCT 15 2015
EASA
October 15, 2015

MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Prasad Enjeti, Associate Dean, College of Engineering

FROM: Dr. Anthony Guiseppi-Elie, Department Head, Biomedical Engineering

RE: BMEN 448 New Course Request for 2016-2017 Catalog

We are requesting that **BMEN 448, Healthcare Technology in the Developing World**, be approved as a new course for the 2016-2017 catalog. This course is listed as requiring MATH 152 and PHYS 208. This course is taught in a summer study abroad program in Rwanda during the Summer I semester. Students taking this course must be in the Department of Biomedical Engineering, which requires that MATH 152 and PHYS 208 be completed during the freshman year per the current course catalog. Since these classes are already included in the degree plan, all students will have these courses completed and letters of support for these pre-requisites are not needed.

If you have additional questions, please contact course instructor, Dr. Kristen Maitland, at 979-845-5532 or kmaitland@tamu.edu.

Thank you for your consideration.
Course number and title: BMEN 448: Healthcare Technology in the Developing World
Term: Summer 2017
Meeting times and location: Lecture hours: 1-2 PM Monday-Friday. Laboratory hours: 2-5 PM Monday-Friday; 8 AM-5 PM Hospital Days

Course Description and Prerequisites
Principles of operation of major types of medical equipment: physiology underlying the measurement; major functional (system) pieces for each instrument; typical problems/applications of each instrument.

Prerequisites: MATH 152, PHYS 208 and approval of instructor.

Learning Outcomes
The learning outcomes include the following two ABET Outcomes (B and C). Students will be able to:
- design/conduct experiments, and analyze/interpret data
- design a system, component or process

Instructor Information
Name: Kristen C. Maitland
Telephone number: 979-845-1864
Email address: kmaitland@tamu.edu
Office hours: TBA
Office location: ETB 5002B

Textbook and/or Resource Material
Required Text: Medical Instrumentation in the Developing World, by Robert Malkin
Required Text: Laboratory Manual Companion, by Robert Malkin, Caroline Gamache, and Michelle Garst

Grading Policies
Attendance is taken in lecture and lab. Any unexcused absence from lecture or lab may result in failure of this course. All assignments must be turned in on time. Late work will not be accepted.

Homework: This course has one to five pages of reading per evening. Pre-read the sections in the textbook prior to the lecture. Pre-read the sections in the lab manual and complete the appropriate pre-lab prior to the laboratory.

Written reports: One written report is required. Your instructor will assign at least one piece of medical equipment for your report.

Quizzes: There will be a daily quiz on the assigned reading.

Lab work: You will be required to demonstrate your lab to the TA or instructor each day.

<table>
<thead>
<tr>
<th>Component</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>60%</td>
</tr>
<tr>
<td>Lab demos</td>
<td>25%</td>
</tr>
<tr>
<td>Written reports</td>
<td>15%</td>
</tr>
<tr>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
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<tr>
<td>70-79%</td>
<td>C</td>
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<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>&lt;60%</td>
<td>F</td>
</tr>
</tbody>
</table>
### Lecture and Lab Topics, Calendar of Activities

<table>
<thead>
<tr>
<th>Lecture Topic</th>
<th>Lab Exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Orientation</td>
<td>1. Introduction to your Toolkit</td>
</tr>
<tr>
<td>2 Hospital Practical Lab</td>
<td></td>
</tr>
<tr>
<td>3 1.0 Introduction to Developing World Medical</td>
<td>2. Extension Cord,</td>
</tr>
<tr>
<td>Equipment</td>
<td>4. Introduction to the DMM</td>
</tr>
<tr>
<td>2.1 Working in the Operating Theatre and ICU</td>
<td></td>
</tr>
<tr>
<td>4 2.2 Ventilators</td>
<td>3. Soldering and Desoldering</td>
</tr>
<tr>
<td>2.3 Oxygen Concentrators</td>
<td>(continue DMM work)</td>
</tr>
<tr>
<td>5 2.4 Fluid Pumps</td>
<td>5. Building an LED Flashlight</td>
</tr>
<tr>
<td>2.5 Electrocardiographs</td>
<td>(continue DMM work)</td>
</tr>
<tr>
<td>6 4.2 Troubleshooting Medical Equipment</td>
<td>6. Simple Power Supply</td>
</tr>
<tr>
<td>7 Hospital Practical Lab</td>
<td></td>
</tr>
<tr>
<td>8 2.6 Blood Pressure Machines</td>
<td>7. Variable Power Supply</td>
</tr>
<tr>
<td>9 2.7 Pulse Oximeter</td>
<td>9/10. Troubleshooting</td>
</tr>
<tr>
<td></td>
<td>(finish power supply)</td>
</tr>
<tr>
<td>10 2.9 Fetal Monitor and Fetal Doppler</td>
<td>13. Training 2</td>
</tr>
<tr>
<td></td>
<td>14. Quick Start Guides (no disassembly)</td>
</tr>
<tr>
<td>11 2.15 Suction Machines</td>
<td>Bring translated quick start guides, all groups need to be trained to use</td>
</tr>
<tr>
<td>2.19 Batteries</td>
<td>all equipment</td>
</tr>
<tr>
<td>12 Hospital Practical Lab</td>
<td></td>
</tr>
<tr>
<td>13 2.10 Infant Incubator</td>
<td>11. Batteries</td>
</tr>
<tr>
<td>2.11 Infant Warmer</td>
<td>12. Training 1 (while charging)</td>
</tr>
<tr>
<td>14 2.17 Anesthesia Machines</td>
<td>17. Needs Assessment</td>
</tr>
<tr>
<td>2.18 Bottled Gases</td>
<td>8. Temperature Alarm (build circuits, talk about how to calibrate)</td>
</tr>
<tr>
<td>15 2.16 Theatre Lamps and Other Lights</td>
<td>8. Temperature Alarm Calibration</td>
</tr>
<tr>
<td>16 3.3 Centrifuges and Electrical Motors</td>
<td>15. Planning Your Days</td>
</tr>
<tr>
<td>17 Hospital Practical Lab</td>
<td></td>
</tr>
<tr>
<td>18 3.5 Water Baths, Stir and Hot Plates</td>
<td>16. Inventory</td>
</tr>
<tr>
<td>3.7 Autoclaves</td>
<td>18. Forms</td>
</tr>
<tr>
<td>19 4.1 Electrical Safety</td>
<td>19. Disassembly</td>
</tr>
<tr>
<td>20 Check out, Pre-briefing reports</td>
<td></td>
</tr>
</tbody>
</table>

### Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

### Academic Integrity

*For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)*

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form instructions

1. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering

2. Course prefix, number and complete title of course: CVEN 399 Mid-Curriculum Professional Development

3. Catalog course description (not to exceed 50 words): Participation in an approved high-impact learning practice; reflection on professional outcomes from civil engineering body of knowledge; documentation of experience appropriate to eventual professional licensure; self-assessment of learning at mid-curriculum point.

4. Prerequisite(s): CVEN 207; CVEN 250; CVEN 303; CVEN 306; CVEN 311; CVEN 322; CVEN 345, CVEN 363

   Cross-listed with: N/A
   Stacked with: N/A

   Cross-listed courses require the signature of both department heads.

5. Is this a variable credit course? [ ] Yes [x] No

   If yes, from _________ to _________

6. Is this a repeatable course? [ ] Yes [x] No

   If yes, this course may be taken _________ times.

   Will this course be repeated within the same semester? [ ] Yes [ ] No

7. This course will be:

   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

      B.S. in Civil Engineering

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

      N/A

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix   Course #   Title (excluding punctuation)

   CVEN   399   MID-CURRICULUM PROF DEVT

   Lect. Lab SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code
   0   0   0   0   0   1   4   0   8   0   1   0   0   0   6   0   6   3   0   1   6   -   1   7   0   0   0   3   6   3   2

   Approval recommended by:

   [Signature]

   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College Review Committee

   Dean of College

   Chair, GC or UCC

   Submitted to Coordinating Board by:

   [Signature]

   Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 09/14
Course title and number  CVEN 399: Mid-Curriculum Professional Development
Term              Fall 2016
Meeting times and location  TBA

Course Description and Prerequisites
CVEN 399. Mid-Curriculum Professional Development. (0-0). Credit 0. Participation in an approved high-impact learning practice; reflection on professional outcomes from civil engineering body of knowledge; documentation of experience appropriate to eventual professional licensure; self-assessment of learning at mid-curriculum point. Prerequisites: CVEN 207; CVEN 250; CVEN 303; CVEN 306; CVEN 311; CVEN 322; CVEN 345; CVEN 363; or approval of instructor.

Learning Outcomes
The Civil Engineering Department expects graduates of our program to have achieved certain educational outcomes as part of the ABET accreditation process, which are listed below. Depending on the specific high-impact learning practice experienced by the student, they will be able to:
- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments, as well as analyze and interpret data
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- Function on multidisciplinary teams
- Identify, formulate, and solve engineering problems
- Understand professional and ethical responsibility
- Communicate effectively
- Understand the impact of engineering solutions in a global, economic, environmental, and societal context
- Recognize the need for and have an ability to engage in life-long learning
- Obtain a knowledge of contemporary issues
- Use the techniques, skills, and modern engineering tools necessary for engineering practice.

The Civil Engineering Department has also aligned its curriculum with the American Society of Civil Engineers (ASCE) Body of Knowledge, version 2 (BOK2). This course will specifically have students consider a sub-set of the following BOK2 outcomes and their role in the student’s professional development:
- Social Science
- Problem Recognition and Solving
- Contemporary Issues and Historical Perspectives
- Business and Public Administration
- Lifelong/Self-directed Learning
- Risk and/or Uncertainty
- Attitudes
- Project Management
- Globalization
Instructor Information

Name: Dr. Kelly Brumbelow
Telephone number: 979-845-7436
Email address: kbrumbelow@civil.tamu.edu
Office hours: TBA
Office location: CE 139-B

Textbook and Resource Material

There is no textbook for this course.

Class resources will be posted on the course website at http://ecampus.tamu.edu to include the following:

- Survey of ASCE BOK2 outcomes self-assessment
- Reflection/Critical Thinking writing assignment
- Texas Board of Professional Engineers (TBPE) Supplementary Experience Record (SER) form for documentation of high-impact learning experience
- Evaluation rubric

Grading Policies

This course will be graded on a pass/fail (S/U) basis only.

Criteria for achieving a passing grade are successful completion of all of the following assignments listed below by due date. The course instructor will determine whether any submission will count as "successful completion" or "incomplete." Submissions deemed "incomplete" will be returned to the student for revision and re-submission within 7 days; only 1 opportunity for revision will be given for any assignment. A second submission deemed "incomplete" will result in a failing grade of "U," and the student will be required to repeat the course.

Due on 1st Class Day

- Pre-approval of CVEN 399 High-Impact Learning Experience and Nomination of Mentor

Due 1 week before 1st Final Exam Day

- Documentation of activities performed in high-impact learning experience using TBPE SER form
- Survey of student self-assessment of ASCE BOK2 outcomes
- Reflection/Critical Thinking writing assignment

Attendance and Make-up Policies

All absences will be handled according to TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07), which states: "The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments. Instructors are expected to give adequate notice of the dates on which major tests will be given and assignments will be due [i.e. this syllabus]." Homework assignments will have due dates extended by the number of days of excused absence. Individual arrangements will be made for exams and quizzes missed due to an excused absence. All excused absences must have appropriate documentation submitted to the instructor. For illnesses or injuries resulting in absences of less than 3 days, the "Explanatory Statement for Absence from Class" is sufficient. For longer periods, a doctor's note will be required. Please contact the instructor as soon as you know that you will miss a quiz or exam date, or if due to an emergency, as soon as possible afterwards. Students are not required to notify the instructor or provide an excuse for a class day on which no graded assignment or activity takes place.
Course Topics, Calendar of Activities, Major Assignment Dates
This course requires you to participate in an approved high-impact learning practice (HILP) in support of your B.S. in Civil Engineering degree. Your HILP should be one of the following:

- Internship
- Co-op work semester
- Study abroad
- Service learning experience (e.g., Engineers Without Borders, Just4Water)
- Undergraduate research
- Co-curricular leadership (e.g., senior-level officer position in ASCE, Concrete Canoe Team, or other engineering student organization)
- Directed Studies (e.g., CVEN 485)
- Other HILP as approved by the instructor

You should register for the section appropriate to your pre-approved HILP – e.g., section 501 = Internship, section 502 = Study Abroad, etc.

You must have pre-approval for your specific HILP from the course instructor by the first class day of the term in which you take this course. Your pre-approval submission must include a professional supervisor/mentor who will oversee your work, certify hours worked, and aid in assessment of your final deliverables (see “Grading Policies” below).

As you near completion of your HILP, you will prepare your final deliverables (see “Grading Policies” below). These ask you to reflect deeply on what you have learned in your HILP as well as your BS-CVEN curriculum to-date. These items will be shared with your supervisor/mentor to help her/him better understand how to provide a good learning experience.

Americans with Disabilities Act (ADA)
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Academic Integrity
For additional information please visit: http://aggiehonors.tamu.edu

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

As engineers, we have a strong code of ethics that we must follow, in order to ensure the safety of the public. Texas A&M students, as part of their professional training, are expected to understand and follow the Aggie honor code, which may be found at www.tamu.edu/aggiehonors. The Dean of Faculties asks us to remind you that, "Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on all work submitted in this course. Ignorance of the rules does not exclude any member of the TAMU community from the requirements of the processes of the Honor System."

Violation of this rule will result in a severe penalty that can include a grade of zero on the quiz or exam, reduction of semester grade, and/or report to the Aggie Honor Council, as appropriate.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering

2. Course prefix, number and complete title of course: CVEN 462 Engineering Hydrogeology

3. Catalog course description (not to exceed 50 words): Groundwater in the hydrologic cycle; aquifer properties; well hydraulics, testing, and design; groundwater quality, and groundwater management and sustainability.

4. Prerequisite(s): CVEN 311; CVEN 301 or CVEN 339; junior or senior classification; or approval of instructor.

   Cross-listed with: N/A
   Stacked with: N/A

   Cross-listed courses require the signature of both department heads.

5. Is this a variable credit course? ☐ Yes ☒ No If yes, from ______ to ______

6. Is this a repeatable course? ☐ Yes ☒ No If yes, this course may be taken ______ times.

   Will this course be repeated within the same semester? ☐ Yes ☒ No

7. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   N/A
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

   B.S. in Civil Engineering

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix  Course #  Title (excluding punctuation)
    CVEN  462  ENGINEERING HYDROGEOLOGY

   Lect.  Lab  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   0  3  0  0  0  3  1  4  0  8  0  1  0  0  0  6  0  6  3  0  1  6  -  1  7  0  0  3  6  3  2

   Approval recommended by:

   Robin Autenrieth  9-30-15

   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date

   Department Head or Program Chair (Type Name & Sign)  Date
   (if cross-listed course)

   Deans of College  Date

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 02/14
Course title and number: CVEN 462: Engineering Hydrogeology
Term: Fall 2016
Meeting times and location: TR 2:20-3:35, CVLB 137

Course Description and Prerequisites
CVEN 462. Engineering Hydrogeology. (3-0). Credit 3. Groundwater in the hydrologic cycle; aquifer properties; well hydraulics, testing, and design; groundwater quality; and groundwater management and sustainability. Prerequisites: CVEN 311; CVEN 301 or CVEN 339; junior or senior classification; or approval of instructor.

Learning Outcomes
After successfully completing this course, students should be able to:
• Identify common aquifer forming sediments and rocks.
• Estimate porosity, hydraulic conductivity, and storage properties of porous materials.
• Create a conceptual drawing of an aquifer.
• Calculate water table drawdown induced by groundwater pumping under a variety of situations.
• Design a property completed well by selecting screen and casing materials, identifying the appropriate screened interval, and sizing the pump necessary for a desired flow rate.
• Classify common groundwater contaminants by their type and describe their possible origins.
• List the principles of sustainable engineering and describe how they apply to groundwater management.

The Civil Engineering Department expects graduates of our program to have achieved certain educational outcomes. Of these, this course can help students develop:
• Ability to identify, formulate and solve civil engineering problems.
• Ability to apply knowledge in water resources and environmental engineering.
• Ability to design a civil engineering system, component, or process to meet desired needs while incorporating engineering standards and realistic constraints...in a water resources and environmental engineering context.
• Understanding of the impact of civil engineering solutions in a global, economic, environmental, and societal context.

Instructor Information
Name: Dr. Gretchen Miller
Telephone number: 979-862-2581
Email address: gmiller@civil.tamu.edu
Office hours: 4:00 – 5:00 pm, TR
Office location: CE/TTI 402D

Textbook and Resource Material

Additional short excerpts from the following documents will be posted on the course website at http://ecampus.tamu.edu:
### Grading Policies

<table>
<thead>
<tr>
<th>Task</th>
<th>Percentage of Grade</th>
<th>Grade Ranges</th>
</tr>
</thead>
</table>
| Homework           | 25% (lowest score dropped) | A ≥ 90%\
|                    |                     | 80% ≤ B < 90%\
|                    |                     | 70% ≤ C < 80%\
|                    |                     | 60% ≤ D < 70%\
|                    |                     | F < 60%               |
| Report/Presentation| 10%/10%             |                       |
| Midterm Exam       | 25%                 |                       |
| Final Exam         | 25%                 |                       |
| Class Participation| 5%                  |                       |

Homework: Homework will be assigned roughly every other week. There will be approximately 6-8 assignments, each worth 100 points and consisting of roughly 6 to 10 problems. Solutions to all problems will be posted, password protected, on the course website. Late homework will be accepted with a 25 percent penalty per day, up until the homework solutions are posted. (Students with a valid excused absence will be able to submit homework past the deadline for full credit, but are expected to notify me as soon as possible.) Your lowest homework grade will be dropped at the end of the semester.

Exams: Exams will consist of both short-answer and work-out questions. Exams will be closed book, but you will be allowed to bring in one 8.5 x 11 inch sheet of paper. Your sheet may be two-sided, but your notes must be hand-written and you must turn in the sheet with your exam. Worked problems are not permitted on your notes sheet. You are allowed to bring a non-QWERTY calculator, and a straight-edge is highly recommended.

Report and Presentation: You will be asked to prepare a 5-page report and 15-minute presentation on an aquifer in Texas, Mexico, or Central America. A draft of the report will be due after midterms, and the final version will be due at 5 pm on the last day of class through the Turn-it-In System on eCampus. You will be asked select your aquifer from a list provided by Dr. Miller, so that duplicate aquifers are not chosen. More details on this assignment will be provided around the third week of class.

Class Participation: Class participation credit may be earned through several mechanisms: random attendance quizzes, volunteering to come to the board to work a problem, participating in class discussions, asking insightful questions, sharing URLs to interesting news articles or reports, helping to prepare a demonstration, frequent office hour attendance, etc. (A side note to the introverts: I understand. There are plenty of ways to participate that do not involve speaking up in class if you are not comfortable doing so. Please feel free to submit written questions for class and to show your interest in alternate ways.) A running tally of your points will be kept on eCampus, and 15 points will be required to earn the full 5%. Noticeable cell phone use may result in loss of points.

### Attendance and Make-up Policies

All absences will be handled according to TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07), which states: “The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments. Instructors are expected to give adequate notice of the dates on which major tests will be given and assignments will be due [i.e. this syllabus].” Homework assignments will have due dates extended by the number of days of excused absence. Individual arrangements will be made for exams and quizzes missed due to an excused absence. All excused absences must have appropriate documentation submitted to the instructor. For illnesses or injuries resulting in absences of less than 3 days, the "Explanatory Statement for Absence from Class" is sufficient. For longer periods, a doctor's note will be required. Please contact the instructor as soon as you know that you will miss a quiz or exam date, or if due to an emergency, as soon as possible afterwards. Students are not required to notify the instructor or provide an excuse for a class day on which no graded assignment or activity takes place.
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Groundwater in the Hydrologic Cycle</td>
<td>Ch 1, 2</td>
</tr>
<tr>
<td>2</td>
<td>Engineering and Hydraulic Properties of Earth Materials</td>
<td>Ch 3.1-3.6</td>
</tr>
<tr>
<td>3</td>
<td>Earth Materials, cont., Intro to Aquifers</td>
<td>Ch 3.7-3.12</td>
</tr>
<tr>
<td>4</td>
<td>Darcy's Law and Hydraulic Head</td>
<td>Ch 4.7-4.14</td>
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<tr>
<td>5</td>
<td>Groundwater Flow and Hydraulics</td>
<td>Ch 4.1-4.6</td>
</tr>
<tr>
<td>6</td>
<td>Overview of aquifer types</td>
<td>Ch 8</td>
</tr>
<tr>
<td>7</td>
<td>Midterm Exam</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Aquifer types, Well Hydraulics</td>
<td>Ch 5.1-5.4</td>
</tr>
<tr>
<td>9</td>
<td>Well Hydraulics</td>
<td>Ch 5.5-5.10</td>
</tr>
<tr>
<td>10</td>
<td>Pumping and Monitoring Well Design</td>
<td>Ch 10.4-10.5, readings posted on website</td>
</tr>
<tr>
<td></td>
<td><strong>Report Drafts Due</strong></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Groundwater Quality</td>
<td>Ch 9.13-9.14, Ch 10.1-10.3</td>
</tr>
<tr>
<td>12</td>
<td>Groundwater Contamination/Transport</td>
<td>Ch 10.6-10.9</td>
</tr>
<tr>
<td>13</td>
<td>Groundwater Management and Sustainability</td>
<td>Ch 11</td>
</tr>
<tr>
<td>14</td>
<td>International Groundwater Development</td>
<td>Readings posted on website</td>
</tr>
<tr>
<td></td>
<td><strong>Final Reports Due</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Review and Class Presentations</td>
<td>None</td>
</tr>
</tbody>
</table>

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic Integrity**

For additional information please visit: [http://aggiehonr.tamu.edu](http://aggiehonr.tamu.edu)

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

As engineers, we have a strong code of ethics that we must follow, in order to ensure the safety of the public. Texas A&M students, as part of their professional training, are expected to understand and follow the Aggie honor code, which may be found at [www.tamu.edu/aggiehonor](http://www.tamu.edu/aggiehonor). The Dean of Faculties asks us to remind you that, "Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements of the processes of the Honor System."

During exams, all communications devices (e.g., cell phones, iPhones, blackberries, etc.) must be turned off and stowed out of sight in a closed bag or compartment. Violation of this rule will result in a severe penalty that can include a grade of zero on the quiz or exam, reduction of semester grade, and/or report to the Aggie Honor Council, as appropriate.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type: 
   - [ ] Undergraduate
   - [ ] Graduate
   - [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): 
   Dwight Look College of Engineering
   ENGR 333 - Project Management for Engineers

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words): 
   Basic project management for engineering; project development and economic justification; estimating; scheduling; network methods; critical path analysis; earned value management; project organizational structures; project risk assessment; resource allocation; ethics; characteristics of project managers.

5. Prerequisite(s): 
   Junior or senior classification in the Dwight Look College of Engineering or Biological and Agricultural Engineering (BAEN) or approval of instructor.

6. Is this a variable credit course? 
   - [ ] Yes
   - [x] No
   If yes, from _____ to _____

7. Is this a repeatable course? 
   - [ ] Yes
   - [x] No
   If yes, this course may be taken _____ times.

8. Will this course be repeated within the same semester? 
   - [ ] Yes
   - [x] No

9. Will this course be submitted to the Core Curriculum Council? 
   - [ ] Yes
   - [x] No

10. How will this course be graded? 
    - [x] Grade
    - [ ] S/U
    - [x] P/F (CLMD)

11. This course will be:
    a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
       Minor in Engineering Project Management
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. 
    Attach approval letters.

13. Prefix | Course # | Title (excluding punctuation)

| ENGR | 333 | Project MGMT for Engineers |

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
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<td>17</td>
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</tbody>
</table>

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) 
Date 

Chair, College Review Committee 
Date 

Dean of College 
Date 

Submitted to Coordinating Board by:

Associate Director, Curricular Services 
Date 

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
TEXAS A&M UNIVERSITY
Dwight Look College of Engineering
ENGR 333 - Project Management for Engineers
Course Syllabus Fall 2016

COURSE DESCRIPTION
Basic project management for engineering; project development and economic justification; estimating; scheduling; network methods; critical path analysis; earned value management; project organizational structures; project risk assessment; resource allocation; ethics; characteristics of project managers. Prerequisite: Junior or senior classification in Dwight Look College of Engineering or Biological and Agricultural Engineering (BAEN) or approval of instructor.

COURSE OBJECTIVES
This course is primarily intended to:
• Prepare graduates to work effectively in project organizations.
• Encourage students to pursue careers in project management.
• Provide the foundation for further study in project management

LEARNING OUTCOMES
Students completing this course are expected to be able to:
• Define the nature of projects and the goals of project management.
• Function effectively as engineers in project organizations.
• Prepare Statements of Work and Work Breakdown Structures.
• Schedule projects using networks and critical path methods.
• Assess project uncertainties and actively manage risks.
• Prepare effective project management plans.
• Measure and evaluate project progress using Earned Value methods.
• Define and assess project scope, quality, cost, and schedule.

COURSE PREREQUISITES
Junior or senior classification in Dwight Look College of Engineering or Biological and Agricultural Engineering (BAEN) or approval of instructor.

INSTRUCTOR
TBD

CLASS MEETINGS
TBD

TEXT

COURSE REQUIREMENTS
Students are expected to participate actively in class discussions, especially project case studies. Completion of class assignments is required to build proficiency and understanding. All students will make both oral and written presentations, individually and in teams. Extensive reading assignments are made from the assigned text, from class handouts, and from other sources.
GRADING (Preliminary)
Assignments - proficiency exercises 40%
Class participation and discussion 10%
Case studies and Oral presentations 40%
Final examination 10%

SCHEDULE OF TOPICS (Preliminary – subject to change)

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Assignments</th>
<th>Group Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overview/what is project management?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Project management functions &amp; orgs</td>
<td>HW 1 – Define project management</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Project economics, present worth, etc.</td>
<td></td>
<td>Case study 1 – analysis and lessons learned</td>
</tr>
<tr>
<td>4</td>
<td>Project planning fundamentals</td>
<td>HW2 – Project economics/ROI</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Systems engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Project cycle</td>
<td>HW3 – Planning fundamentals</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Time planning &amp; networks</td>
<td></td>
<td>Case study 2 – analysis and lessons learned</td>
</tr>
<tr>
<td>8</td>
<td>Advanced networks</td>
<td>HW4 – Scheduling and critical path</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Cost estimating &amp; budgeting</td>
<td>HW5 – Cost estimating concepts/methods</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Quality management</td>
<td></td>
<td>Case study 3 – analysis and lessons learned</td>
</tr>
<tr>
<td>11</td>
<td>Risk management</td>
<td>HW6 – Risk assessment and analysis</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Risk management continued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Project controls</td>
<td>HW7 – Earned value analysis &amp; controls</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Next generation project management</td>
<td></td>
<td>Case study 4 – analysis and lessons learned</td>
</tr>
<tr>
<td>15</td>
<td>Final Exam</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GUIDELINES FOR SUBMISSION OF ASSIGNMENTS AND PROJECTS
All assignments and term projects should conform to the following guidelines unless specifically advised otherwise. If these guidelines are unclear, ask the instructor for clarification. Nothing in these guidelines should be construed to be contrary to official Texas A&M policies or to supersede official Texas A&M policies.

Assignments and term projects are due at the beginning of class on the due date specified. Late assignments will be accepted only by prior arrangement with the instructor at least 48 hours before the deadline. Late term projects will be marked down one letter grade unless prior arrangement with the instructor has been made (this will almost surely affect the course grade). Submittals are like bids, in that they are due on the date and time specified, and extensions are rarely given. Extensions will be granted only for circumstances beyond the student's control. University rules on excused absences will be followed. E-mail submittals will not be accepted except by prior arrangement and extenuating circumstances.

It is your responsibility to understand the assignment (what is expected, due date, objectives, criteria for evaluation, etc.) before you hand in the finished product and in time to prepare your submittal by the deadline. Read and start on assignments early enough to provide adequate time for questions to the instructor and to your teammates.

Submittals are like engineering reports: they must be in hard copy, printed, spell-checked, and checked for accuracy by all team members. Neatness, grammar, and spelling do count in all engineering work.

Questions about the grading of assignments should be addressed to the instructor within one week of receiving the grade, or before the last class meeting, whichever comes first. If, after understanding the basis for the grade assigned, you feel that you have provided what is asked for but have not received appropriate credit, write a
letter to the instructor specifically pointing out these occurrences and documenting your position, and submit it with
the unchanged submittal to the instructor. The instructor will then review the grading and contact you.

Engineering projects in the professional world are often interdisciplinary. Team-based homework
assignments and term projects in ENGR 333 may be structured to reflect this reality. For these assignments, all team
members must contribute. Submittals must contain the names of all team members contributing to the product. All
team members will be equally responsible for the material contained in the submittals, and all team members will
receive the same grade. Any other materials, information, or advice used in the preparation of any submittal must be
cited in the submittal. It is essential that each submittal identify and give credit for the work of others when it is
used. It is never wrong to use information obtained from other (reliable) sources; it is always wrong not to identify
those sources.

Format Submittals should be organized like (brief) engineering studies or reports. Identify all assumptions
made and the sources of all technical information. Identify the answers clearly. Text must be printed or typed, not
handwritten, in 12 point type and 1 1/2-line spacing. Necessary handwritten material such as graphs and drawings
should be large and printed legibly. Provide all team members’ names, assignment title, and date at the top of the first
page. Number the pages.

Diagrams: Insert diagrams, equations, graphs, etc. into the text near where they are referenced. Cite any
supporting material in the text and collect it in appendices.

Summary: Effective communication is essential for success in engineering and construction. Developing that
skill requires practice. Be brief, concise, and to the point. Use the spell-checker on the word processor. In the case of
team work, every team member should proofread and approve the final document before submittal.

**ACADEMIC HONESTY**

"An Aggie does not lie, cheat, or steal or tolerate those who do." Upon accepting admission to Texas A&M
University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for
learning, and to follow the philosophy and rules of the Honor System. **Students may be required to state their
commitment on examinations, research papers, and other academic work.** Ignorance of the rules does not exclude
any member of the TAMU community from the requirements or the processes of the Honor System. For additional
information, visit the web at: [http://aggiehonor.tamu.edu/](http://aggiehonor.tamu.edu/).

Students are expected to understand and abide by the Aggie Honor Code presented on the web at:
[http://aggiehonor.tamu.edu/](http://aggiehonor.tamu.edu/) No form of scholastic misconduct will be tolerated. Academic misconduct includes
cheating, fabrication, falsification, multiple submissions, plagiarism, complicity, etc. These are more fully defined in
the above web site. Violations will be handled in accordance with the Aggie Honor System Process described on the
web site.

The handouts used in this course are copyrighted. By “handouts,” is meant all materials generated for this class, which
include but are not limited to syllabi, notes, quizzes, exams, in-class materials, review sheets, and additional problem
sets. Because these materials are copyrighted, you do not have the right to copy the handouts unless you are expressly
granted permission in writing.

No form of scholastic dishonesty (cheating, plagiarism, etc.) will be tolerated. As commonly defined, plagiarism
consists of passing off as one’s own the ideas, word, writings, etc., which belong to another. In accordance with this
definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if
you should have permission of that person. This includes copying material from books, reports, journals, pamphlets,
handouts, other publications, web sites, etc., without giving appropriate credit for those ideas or with out identifying
material as quotations when taken directly from another source. Plagiarism is one of the worst academic sins, for the
plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

Cheating on quizzes and exams will not be tolerated. Cheating will be reported and handled in accordance
with the Aggie Honor System Process. Some or all examinations may be closed book; looking at another student’s
examination or using external aids (for example, books, notes, calculators, conversation with others, or electronic
devices) during these examinations is a violation of Texas A&M Aggie Honor Code, Cheating, unless specifically
allowed in advance by the instructor.
Unless specifically allowed in advance by the instructor, all assignments and homework in this class are expected to be completed based on individual effort. Copying the work of others, including homework, is a violation of Texas A&M Aggie Honor Code, Cheating.

Violation of a student rule can result in disciplinary action including a grade penalty, up to and including an F in the course, suspension, dismissal, and expulsion from Texas A&M University. If you have any questions regarding plagiarism or other forms of scholastic dishonesty, consult the latest issue of the Texas A&M University Student Rules, under Section 20, which can also be found at: http://student-rules.tamu.edu/

ATTENDANCE

The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments. Instructors are expected to give adequate notice of the dates on which major tests will be given and assignments will be due. Refer to the Student Rules Part 7 at http://student-rules.tamu.edu for further information on attendance.

ADA

The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, contact the Department of Student Life, Services for Students with Disabilities in Cain Hall, or call 943-1637. For additional information visit http://disability.tamu.edu.
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional

Form Instructions
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (D.D.S, M.D., J.D., Pharm.D, D.V.M)

2. Request submitted by (Department or Program Name):
   Dwight Look College of Engineering

3. Course prefix, number and complete title of course:
   ENGR 380 - Seminar Series in Engineering Project Management

4. Catalog course description (not to exceed 50 words):
   Presentations by practicing engineers and professionals addressing engineering project management process and practice; discussion forum to better understand the opportunities and challenges of engineering project management, and the analytical tools and skills required to be successful.

5. Prerequisite(s):
   ENGR 333 or approval of instructor; junior or senior level classification in the Dwight Look College of Engineering or Biological and Agricultural Engineering (BAEN)

6. Cross-listed with:

7. Is this a variable credit course? Yes
   If yes, from ________ to ________

8. Is this a repeatable course? Yes
   If yes, this course may be taken ________ times.

9. Will this course be repeated within the same semester? Yes
   No

10. Will this course be submitted to the Core Curriculum Council? Yes
    No

11. How will this course be graded? Grade
    S/U
    P/F (CLMD)

12. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      Minor in Engineering Project Management
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

13. Prefix: ENGR
    Course #: 380
    Title (excluding punctuation): ENGR Project MGMT Seminar

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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Approval recommended by:

Chair, College Review Committee
Date

Dean of College
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra_williams@tamu.edu.
Curricular Services – 07/14
COURSE DESCRIPTION
Presentations by practicing engineers and professionals addressing engineering project management process and practice; discussion forum to better understand the opportunities and challenges of engineering project management, and the analytical tools and skills required to be successful.

COURSE OBJECTIVES
This course is primarily intended to:
• Provide an opportunity to demonstrate both written and oral technical communication skills
• Demonstrate real-world application of project management principles and practices
• Prepare graduates to work effectively in project organizations.
• Encourage students to pursue careers in project management.

LEARNING OUTCOMES
Students completing this course are expected to be able to:
• Define and assess the nature of projects and the goals of project management.
• Function effectively as engineers in project organizations.
• Define and assess project-driven industry segments

COURSE PREREQUISITES
ENGR 333 or approval of instructor; junior or senior classification in the Dwight Look College of Engineering or Biological and Agricultural Engineering (BAEN).

INSTRUCTOR
TBD

CLASS MEETINGS
TBD

TEXT
None. Specific readings will be assigned by the instructor.

COURSE REQUIREMENTS
Students are expected to participate actively in class discussions. All students will make both oral and written presentations, individually and in teams. Extensive reading assignments are made from the assigned text, from class handouts, and from other sources.

GRADING (Preliminary)
Pass/Fail
CLASS SCHEDULE (Preliminary – subject to change and availability of presenters)

<table>
<thead>
<tr>
<th>Week</th>
<th>Class Session</th>
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<tbody>
<tr>
<td>1</td>
<td>Overview. Project organizations</td>
</tr>
<tr>
<td>2</td>
<td>Industry Presentation</td>
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<td>3</td>
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<td>4</td>
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<tr>
<td>14</td>
<td>Student Presentation</td>
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<td>15</td>
<td>Final Paper Due</td>
</tr>
</tbody>
</table>

GUIDELINES FOR SUBMISSION OF ASSIGNMENTS AND PROJECTS

All assignments and term projects should conform to the following guidelines unless specifically advised otherwise. If these guidelines are unclear, ask the instructor for clarification. Nothing in these guidelines should be construed to be contrary to official Texas A&M policies or to supersede official Texas A&M policies.

Assignments and term projects are due at the beginning of class on the due date specified. Late assignments will be accepted only by prior arrangement with the instructor. University rules on excused absences will be followed. Late term projects will be marked down one letter grade unless prior arrangement with the instructor has been made. Submittals are like bids, in that they are due on the date and time specified, and extensions are rarely given. Extensions will be granted only for circumstances beyond the student's control. E-mail submittals will not be accepted except by prior arrangement and extenuating circumstances.

It is your responsibility to understand the assignment (what is expected, due date, objectives, criteria for evaluation, etc.) before you hand in the finished product and in time to prepare your submittal by the deadline. Read and start on assignments early enough to provide adequate time for questions to the instructor and to your teammates.

Submittals are like engineering reports: they must be in hard copy, printed, spell-checked, and checked for accuracy by all team members. Neatness, grammar, and spelling do count in all engineering work.

Questions about the grading of assignments should be addressed to the instructor within one week of receiving the grade, or before the last class meeting, whichever comes first. If, after understanding the basis for the grade assigned, you feel that you have provided what is asked for but have not received appropriate credit, write a letter to the instructor specifically pointing out these occurrences and documenting your position, and submit it with the unchanged submittal to the instructor. The instructor will then review the grading and contact you.

Teamwork. Homework assignments and term projects may be prepared by teams of 333 students. In such a case, all team members must contribute equally to the preparation of team assignments. Submittals must contain the names of all team members contributing to the product. All team members will be equally responsible for the material contained in the submittals, and all team members will receive the same grade. Any other materials, information, or advice used in the preparation of any submittal must be cited in the submittal. It is essential that each submittal identify and give credit for the work of others when it is used. It is never wrong to use information obtained from other (reliable) sources; it is always wrong not to identify those sources.
Format Submittals should be organized like (brief) engineering studies or reports. Identify all assumptions made and the sources of all technical information. Identify the answers clearly. Text must be printed or typed, not handwritten, in 12 point type and 1 1/2-line spacing. Necessary handwritten material such as graphs and drawings should be large and printed legibly. Provide all team members' names, assignment title, and date at the top of the first page. Number the pages.

Diagrams: Insert diagrams, equations, graphs, etc. into the text near where they are referenced. Cite any supporting material in the text and collect it in appendices.

Summary: Effective communication is essential for success in engineering and construction. Developing that skill requires practice. Be brief, concise, and to the point. Use the spell-checker on the word processor. In the case of team work, every team member should proofread and approve the final document before submittal.

ACADEMIC HONESTY

"An Aggie does not lie, cheat, or steal or tolerate those who do.” Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students may be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information, visit the web at: http://aggiehonor.tamu.edu/.

Students are expected to understand and abide by the Aggie Honor Code presented on the web at: http://aggiehonor.tamu.edu/. No form of scholastic misconduct will be tolerated. Academic misconduct includes cheating, fabrication, falsification, multiple submissions, plagiarism, complicity, etc. These are more fully defined in the above web site. Violations will be handled in accordance with the Aggie Honor System Process described on the web site.

The handouts used in this course are copyrighted. By “handouts,” is meant all materials generated for this class, which include but are not limited to syllabi, notes, quizzes, exams, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts unless you are expressly granted permission in writing.

No form of scholastic dishonesty (cheating, plagiarism, etc.) will be tolerated. As commonly defined, plagiarism consists of passing off as one’s own the ideas, word, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have permission of that person. This includes copying material from books, reports, journals, pamphlets, handouts, other publications, web sites, etc., without giving appropriate credit for those ideas or with out identifying material as quotations when taken directly from another source. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

Cheating on quizzes and exams will not be tolerated. Cheating will be reported and handled in accordance with the Aggie Honor System Process. Some or all examinations may be closed book; looking at another student's examination or using external aids (for example, books, notes, calculators, conversation with others, or electronic devices) during these examinations is a violation of Texas A&M Aggie Honor Code, Cheating, unless specifically allowed in advance by the instructor.

Unless specifically allowed in advance by the instructor, all assignments and homework in this class are expected to be completed based on individual effort. Copying the work of others, including homework, is a violation of Texas A&M Aggie Honor Code, Cheating.

Violation of a student rule can result in disciplinary action including a grade penalty, up to and including an F in the course, suspension, dismissal, and expulsion from Texas A&M University. If you have any questions regarding
plagiarism or other forms of scholastic dishonesty, consult the latest issue of the Texas A&M University Student Rules, under Section 20, which can also be found at: http://student-rules.tamu.edu/

ATTENDANCE

The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments. Instructors are expected to give adequate notice of the dates on which major tests will be given and assignments will be due. Refer to the Student Rules Part 7 at http://student-rules.tamu.edu for further information on attendance, etc.

ADA

The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, contact the Department of Student Life, Services for Students with Disabilities in Cain Hall, or call 845-1637. For additional information visit http://disability.tamu.edu.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Lynn Instructions:

1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DVM, MD, JD, PharmD, DPA, EASA)

2. Request submitted by (Department or Program Name):
   Engineering, Technology, and Industrial Distribution

3. Course prefix, number and complete title of course:
   ENTC 484 Professional Internship

4. Catalog course description (not to exceed 50 words):
   Directed internship in a private firm, government agency, laboratory, or non-governmental organization to provide work and/or research experience related to the student's program and career objectives.

5. Prerequisite(s):
   Junior or senior classification and approval of internship agency and instructor.
   Cross-listed with: N/A
   Stacked with: N/A

6. Is this a variable credit course? Yes ☐ No ☒
   If yes, from _______ to _______

7. Is this a repeatable course? Yes ☒ No ☐
   If yes, this course may be taken _______ times.
   Will this course be repeated within the same semester? Yes ☐ No ☐

8. Will this course be submitted to the Core Curriculum Council? Yes ☐ No ☒
   Will this course be graded? Grade ☐ S/U ☐
   P/F (CLMD) ☐

9. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)

10. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://exportcontrols.tamu.edu/resources/faq for distance education).

13. Prefix: ENTC
    Course #: 484
    Title: Professional Internship

<table>
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<th>Lab</th>
<th>Other</th>
<th>CHG</th>
<th>GPH and Earned Credits</th>
<th>Admin Unit</th>
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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-6201 or sandra.williams@tamu.edu
Curricular Services - 07/14
ENTC 484 – Professional Internship
Fall 2016

Instructor:  Dr. Jay Porter
Email: jporter@tamu.edu
Office: Fermier 008 (845-1459)
Office Hours: Call or email with questions pertaining to internship and documentation

Meeting days and times: TBA
Meeting location: TBA

Topics: Credit (1) – Directed internship in a private firm, government agency/laboratory, or non-governmental organization to provide work and/or research experience related to the student's program and career objectives.

Prerequisite: Junior or senior classification and approval of internship agency and instructor.

Textbook: None

Course Learning Outcomes:
1. Relate engineering technology and/or industrial distribution concepts to real world environments
2. Apply engineering technology and/or industrial distribution techniques to the workplace
3. Demonstrate professionalism, skills, and competencies in a workplace setting
4. Document and present technical solutions and experiences at a level appropriate to an audience.

Grading: In this course, a verification of attendance and a final report will determine the overall course grade. Satisfactory completion of assignments includes meeting deadlines, following instructions, and creating professional documentation.

Verification of attendance: 31%
Final Report: 69%

The verification of attendance form is to be filled out by your immediate supervisor at the end of your internship. This form verifies that you were present at work on a pre-agreed upon schedule and verifies that your internship is full-time (40 hrs/week).

IMPORTANT! All internships must be full-time in order to receive a passing grade for this course.

A 90 - 100%
B 80 - 89%
C 70 - 79%
D 60 - 69%
F 0 - 59%
Attendance: Attendance is required and will be verified by your immediate supervisor as discussed above. For more information about University attendance policies, see: http://student-rules.tamu.edu/rule07

American with Disabilities (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity Syllabus Statement
"An Aggie does not lie, cheat, or steal or tolerate those who do."
For questions about honor code violations or the review/appeal process see: http://aggiehonor.tamu.edu
Schedule:

Week 0  Identify internship and obtain written approval from internship agency and instructor.
Week 1  Submit form with contact information for yourself, contact information for your immediate supervisor and your agreed-upon work schedule.
Week 15 Turn in completed, written report prior to the last day of finals
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Finance
3. Course prefix, number and complete title of course: FINC 444 Behavioral Finance
4. Catalog course description (not to exceed 50 words): Psychological and sociological aspects of financial decision making for individuals, institutions, and corporations; impacts of psychological factors on the financial markets, including anomalies in asset prices and stock market bubbles and crashes.

5. Prerequisite(s): FINC 351 and FINC 361
Cross-listed with: Stacked with: Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☐ Yes ☑ No If yes, from _______ to _______
7. Is this a repeatable course? ☐ Yes ☑ No If yes, this course may be taken _______ times.
Will this course be repeated within the same semester? ☐ Yes ☑ No
8. Will this course be submitted to the Core Curriculum Council? ☑ Yes ☐ No
9. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLMD)
10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   
   B. B. A. in Finance
11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

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<th>FINC</th>
<th>444</th>
<th>BEHAVIORAL FINANCE</th>
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</tbody>
</table>

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date (if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number  FINC 444 Behavioral Finance
Term  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites

Behavioral finance is an approach to finance where, unlike traditional financial theory, it is understood that not all investors are rational, and that this 'irrationality' can cause inefficiencies in all aspects of investment. In this course, we will examine the psychological and sociological theories used to explain variations in individual, institutional, and corporate decision making. We then examine the impact that these behaviors have on the financial markets, such as anomalies in asset pricing and stock market bubbles and crashes.

FINC 351 and FINC 361.

Learning Outcomes

After successfully completing this course, students will be able to explain how psychological and sociological factors influence investment decisions. They should be able to identify possible biases in investment analysis and portfolio management arising from cognitive, affective and social influences and the effects on the overall markets. They should be able to use behavioural finance insights in the process of structuring saving and investment schemes, as well as in the analysis of corporations and the financial markets.

Instructor Information

Name  Dr. Karen M. McGrath
Telephone number  979.845.3514
Email address  kmcgrath@mays.tamu.edu
Office hours  TBD
Office location  WCBA 351H

Textbook and/or Resource Material

All of the reading for this course is in the form of academic journal articles, listed below.

Attendance and Make-up Policies

Class attendance is your individual student responsibility. Students are expected to attend class and to complete all assignments. The attendance and make-up policies for the course precisely follow student rule 7  http://student-rules.tamu.edu/rule07. Read this link in detail if you are not already well aware of it. Particular policy items that are not specified in student rule 7 are detailed for this course below.

In particular, absences are allowed to be considered excused only if they follow university-excused absences and policies for those absences listed in student rule 7. Students who have an excused absence are expected to uphold the Aggie Honor Code and Student Conduct Code (See Rule 24
http://student-rules.tamu.edu/rule24). Students are responsible for providing satisfactory evidence to substantiate the reason for an excused absence. A medical confirmation note from a student’s medical provider is required for injury or illness that requires a student to be absent for two or more consecutive classes but not for just one class. There is no opportunity for the student to make up work missed because of an unexcused absence.

**Grading Policies**

The grading scale is as follows:
- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%
- F = below 60%

**Mark Breakdown:**
- Class Participation: 5%
- Essay: 45%
- Final Exam: 50%

**Course Topics, Calendar of Activities, Major Assignment Dates**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Behavioral Finance</td>
<td>Thayler (2010)</td>
</tr>
<tr>
<td>2</td>
<td>Risk</td>
<td>Weber &amp; Milliman (1997)</td>
</tr>
<tr>
<td>3</td>
<td>Prospect Theory</td>
<td>Kahneman &amp; Tversky (1979)</td>
</tr>
<tr>
<td>4</td>
<td>Beliefs, Biases, and Heuristics</td>
<td>Halko, Kaustia &amp; Alanko (2012)</td>
</tr>
<tr>
<td>5</td>
<td>Beliefs, Biases, and Heuristics</td>
<td>Barber &amp; Odean (2008); Shefrin, (2001)</td>
</tr>
<tr>
<td>6</td>
<td>Beliefs, Biases, and Heuristics</td>
<td>Kaustia, Alho &amp; Puttonen (2008)</td>
</tr>
<tr>
<td>7</td>
<td>Herding</td>
<td>Wermers (1999)</td>
</tr>
<tr>
<td>8</td>
<td>Individual Investors Behavior</td>
<td>Thaler (1999); Thaler &amp; Shefrin (1981)</td>
</tr>
<tr>
<td>9</td>
<td>Individual Investors Behavior</td>
<td>Kaustia (2010); Kaustia &amp; Knüpfeler (2012); Odean (1998);</td>
</tr>
<tr>
<td>10</td>
<td>Noise Traders</td>
<td>Barber, Odean &amp; Zhu (2006)</td>
</tr>
<tr>
<td>12</td>
<td>EMH/Market Anomalies</td>
<td>Lamont &amp; Thaler (2001); Lakonishok, Shleifer &amp; Vishny (1994)</td>
</tr>
<tr>
<td>14</td>
<td>Behavioral Corporate Finance</td>
<td>Baker, Ruback, &amp; Wurgler (2004); Malmendier &amp; Tate (2005)</td>
</tr>
</tbody>
</table>
References:


Thaler, R. H. (2010). The end of behavioral finance


**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Academic Integrity**

For additional information please visit [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

**Mays Food and Beverage Policy**

We have beautiful and state-of-the-art classrooms in the Wehner Building and Cox Hall. We want to maintain the high quality of these classrooms for the students in future years. Thus, it is necessary for you to adhere to the established policy of no beverages, food, tobacco products, or animals (unless approved) within the classrooms. Bottled water is permitted. Your assistance is greatly appreciated.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
● Submit original form and attach a course syllabus.

Form Instructions

1. Request submitted by (Department or Program Name): Department of Finance, Mays Business School.

2. Course prefix, number and complete title of course: FINC464: Commercial Credit Analysis

3. Catalog course description (not to exceed 50 words): Recognized techniques for assessing the ability and willingness of business firms to service debts as originally agreed; regulatory and ethical requirements for structuring and documenting commercial bank loans to protect interests of shareholders, depositors, and deposit insurers.

4. Prerequisite(s): Admission to Mays Commercial Banking Program, or FINC434 and approval of advisor.

Cross-listed with: Stacked with:

Cross-listed courses require the signature of both department heads.

5. Is this a variable credit course? Yes No

If yes, from _______ to _______.

6. Is this a repeatable course? Yes No

If yes, this course may be taken _______ times.

Will this course be repeated within the same semester? Yes No

7. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   RBA in Finance.

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix Course # Title (excluding punctuation)
   FINC 464 COMM CREDIT ANALYSIS
   Lect. Lab SCH CIP and Fund Code Admin Unit Acad. Year FICE Code
   0 3 0 0 0 3 5 2 0 8 0 3 0 1 6 1 1 1 0 1 6 - 1 7 0 0 3 6 3 2

   Approval recommended by: 10/8/15

   Department Head or Program Chair (Type Name & Sign) Date

   Department Head or Program Chair (Type Name & Sign) Date
   (if cross-listed course)

   Submitted to Coordinating Board by:

   Chair, GC or UCC Date

   Effective Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

   Curricular Services – 3/10
FINC464: Commercial Credit Analysis
Spring 2017—Days, time, and room TBA

Instructor: Dr. James W. Kolari
351R Wehner
979.845.4803
j-kolari@tamu.edu
Office Hours: TBA

Text: Readings packet TBA

Prerequisite: Admission to Commercial Banking Program, or FINC434 and approval of advisor.

Course Description:
Completion of this course qualifies the student to certify as “Credit Analyst I” under the requirements of the Risk Management Association. RMA is the national professional society of commercial lending officers and credit experts. The course exhaustively covers:

- Cash flow analysis
- Financial statement analysis
- Structuring commercial loans
- Commercial real estate fundamentals
- Personal financial statement analysis
- Business tax return analysis
- Industry & market analysis
- Commercial loan documentation

Learning Outcomes: Students who successfully complete FINC464 will be able to—

Apply and articulate the recognized techniques for assessing the ability and willingness of business firms to service debts as originally agreed.

Meet and articulate the regulatory and ethical requirements for structuring and documenting commercial bank loans to protect interests of shareholders, depositors, and deposit insurers.

Course Requirements:

Attendance, participation, and makeups. Each student is expected to attend and participate in class regularly. The dress code is “business casual” as defined for learning communities in Mays Business School. Absences will be excused only under Student Rule7—http://student-rules.tamu.edu/rule07. A student who misses a classroom exam because of an excused absence will, upon documenting the excuse, be given a makeup exam at a time scheduled by the instructor not later than 30 calendar days after the absence, and not conflicting with the student’s class schedule. A student who misses an exam because of an unexcused absence will not be offered a makeup exam or any other makeup opportunity.

RMA Component. An online RMA test will take approximately 2 hours to complete. Students must also complete RMA’s Ethics and Commercial Lending online course. Upon meeting these requirements, students earn a Certificate and free student membership in RMA. These requirements are completion requirements for FINC464 and do not have point values. A student who does not complete these requirements before the end of the semester will be marked “Incomplete” and will have to complete these requirements before receiving his or her regular letter grade as determined by his or her classroom exam performance (see below).

Classroom Exam Component. Three major noncumulative exams will be given. Each exam is worth 100 points, for a total of 300 available points.
Grades:  
A  90-100% of available points  
B  80-89%  
C  70-79%  
D  60-69%  
F  Below 60%

As noted above, a student must complete the RMA Component of the course before he or she can receive a regular letter grade.

Honor Code:  "An Aggie does not lie, cheat or steal, or tolerate those who do."

Honor Council Rules and Procedures may be found at http://aggiehonor.tamu.edu. It is the duty of both students and instructors to refuse to participate in or tolerate scholastic dishonesty. Honor violations will not be tolerated and will be prosecuted to the fullest extent consistent with university policy.

Topical Outline

<table>
<thead>
<tr>
<th>Class Session #</th>
<th>Subject Matter</th>
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<tr>
<td>1 &amp; 2</td>
<td>Financial Statement Analysis</td>
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<tr>
<td>3 &amp; 4</td>
<td>Analyzing Commercial Borrowers’ Industry, Market, and Competitive Risk</td>
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<tr>
<td>5</td>
<td>Statement Spreading</td>
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<tr>
<td>6</td>
<td>Case Study (1)</td>
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<tr>
<td>7 &amp; 8</td>
<td>Cash Flow Analysis</td>
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<td>9</td>
<td>Business Writing for Bankers</td>
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<tr>
<td>10</td>
<td>Structuring Commercial Loans</td>
</tr>
<tr>
<td>11</td>
<td>Case Study (2)</td>
</tr>
<tr>
<td>12</td>
<td>Analyzing Tax Returns – Business</td>
</tr>
<tr>
<td>13</td>
<td>Analyzing Personal Financials/Tax Returns</td>
</tr>
<tr>
<td>14</td>
<td>Loan documentation, relationship management &amp; wrap-up.</td>
</tr>
<tr>
<td>15</td>
<td>Final exam</td>
</tr>
</tbody>
</table>

Classroom Care:
We have beautiful state-of-the-art classrooms in the Wehner Building and Cox Hall. We want to maintain the high quality of these classrooms for students in future years. Thus, it is necessary to adhere to the established policy of no beverages, food, tobacco products (except water in a clear container or otherwise authorized), or animals (except Reveille or authorized service animals) in classrooms. Your assistance is greatly appreciated.

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Texas A&M University

Departmental Request for a New Course

Undergraduate * Graduate * Professional
* Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type:
   - Undergraduate [✓]
   - Graduate [ ]
   - First Professional (DDS, MD, JD, PhD, DVM)

2. Request submitted by (Department or Program Name):
   - International Studies
   - FREN 481 Seminar in French and Francophone Studies

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   In-depth exploration of topics in French and Francophone literature, culture, and/or film, involving individual student research projects. May be repeated once for credit as topics change.

5. Prerequisite(s):
   Junior or senior classification, or instructor approval.

6. Is this a variable credit course?
   - Yes [ ]
   - No [✓]
   If yes, from _____ to _____

7. Is this a repeatable course?
   - Yes [✓]
   - No [ ]
   If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester?
   - Yes [ ]
   - No [✓]

8. Will this course be submitted to the Core Curriculum Council?
   - Yes [ ]
   - No [✓]

9. How will this course be graded?
   - Grade [✓]
   - S/U [ ]
   - P/F (CLMD) [ ]

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. in Modern Languages: French; B.A. in International Studies; undergraduate general academics

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ypr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)

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Approval recommended by:
Robert R. Shandley
Department Head or Program Chair (Type Name & Sign), Date

Chair, College Review Committee
Date

Dean of College
Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services: 07/14
FREN 481-500 Seminar in French and Francophone Studies
World War II in French Literature and Film

Dr. Nathan Bracher
Office: ACAD 329A
Office hours: MWF 2:00-3:00, or by appt.
nbracher@tamu.edu
phone: 845-2124 (INTS main office)

Texas A&M University
Fall 2016
Class meeting: TR 9:35-10:50
ACAD 226

Course description:
In-depth exploration of topics in French and Francophone literature, culture, and film, involving individual student research projects. May be repeated once for credit as topics change.

The Second World War was for France, as for many countries, a pivotal set of events that, from the immediate postwar period right up to the present day in these first decades of the twenty-first century, has continued to reverberate in the nation’s society, politics, and culture. To understand French attitudes toward the European Union, the United States, immigration, and globalization, among other matters, an essential understanding of the humiliating defeat, Occupation, collaboration, resistance, deportations, liberation, and finally, victory that France experienced from the late 1930s through the nascent Cold War is simply indispensable. The selection of films and literary texts studied in this course will serve as landmarks and guideposts within the vast domain of “The Dark Years.”

Prerequisites:
Junior or senior classification, or approval of instructor.

Learning Outcomes:
This course students will enable students:
• to identify the major events, social groups, and leaders of World War II in France;
• to describe the key role of major works of French film and literature in constituting and expressing the memory of the Dark Years;
• to analyze major political and aesthetic currents at work in the texts and films studied;
• to appreciate the specificity of the French experience of World War II;

Required course materials:
Irène Némirovsky, Suite française
Vercors, The Silence of the Sea
Jean-Paul Sartre, The Flies
Albert Camus, The Plague
Patrick Modiano, Dora Brader
Laurent Binet, HHhhH

All films will be available for digital streaming through: mediamatrix.tamu.edu.

Course requirements and evaluation:
Critical response papers (3) 50%
In-class oral presentation of research project 15%
Proposal narrative for research project 5%
Annotated bibliography for research project 5%
Detailed outline of research project 5%
Written report on research project 20%

Grading scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F

Each student will write three (3) critical response papers that address issues posed by the readings and discussions as indicated on the syllabus. In addition, each student will conduct a research project on one major French film, literary work, historical episode, or issue of memory not included on the syllabus. The
precise subject of this research project will be chosen in close consultation with the instructor. All students will give a 10-12 minute oral presentation providing a synopsis of their research to the entire class, and will also hand in a formal written report of 10-20 pages on their research projects at the end of the semester. To ensure that these projects are undertaken in a timely and methodical manner, a topic proposal narrative will be due in week 7, an annotated bibliography in Week 9, followed by a detailed outline of the final report, due in Week 11.

**Oral Presentation Guidelines & Grading:**
The oral presentation will be from 10 to 12 minutes in length and will convey the salient results of your research project. It will be graded according to the following criteria and percentages:
- **20% = Delivery:** You should look directly at your audience. You may use notes, but do not read directly from your written text. Speak distinctly, taking care to use natural intonation.
- **20% = Clarity of main themes:** Your audience should be able to clearly discern your main ideas. The most important findings of your research must therefore be articulated in a clear, precise, succinct manner.
- **25% = Intellectual content:** You should explain what motivated you to take up your particular topic and indicate how it is related to material that we have studied together in class. You should then explain how your findings shed new light on the subject or challenge conventional wisdom.
- **25% = Precision and cogency of analysis:** Rather than simply advancing general descriptions or platitudes, you should support your theses with evidence illustrated by concrete examples. Examples should be striking, allowing your audience to grasp main points from a case in point.
- **10% = Quality of your one-page handout:** You should supply each member of the class with a one-page printed (not handwritten) synopsis of your findings. This sheet must be error free and neatly organized, clearly indicating the title of your research project along with your name at the top, and supplying your main sources of information.

**Attendance:**
The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. Students are expected to attend class and to complete all assignments; students are responsible for providing satisfactory evidence to the instructor to substantiate the reason for absence. University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

**Americans with Disabilities Act (ADA) Policy Statement:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protections for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B-118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic Integrity:**
"*An Aggie does not lie, cheat, or steal, or tolerate those who do.*" You are expected to be aware of the Aggie Honor Code and the Honor Council Rules and Procedures, stated at [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu).
Calendar of Assignments

Week 1:  
Introduction: French politics, culture, & society in the 1930s and 1940s

Week 2:  
From the “phony war” to invasion, defeat, and mass exodus:  

Week 3:  

Week 4:  
Remembering the shock and awe of defeat in the 1970s:  
Marcel Ophüls, *The Sorrow and the Pity*, pt. 1 (Film)  
**Critical Response Paper 1**

Week 5:  
Choices in occupied France: Black market, compromise, collaboration, revolt:  
Némirovsky, *Suite Française*, Pt. 2

Week 6:  
Between collaboration and resistance [A]:  
Vercors, *The Silence of the Sea*  
**Critical Response Paper 2**

Week 7:  
Between collaboration and resistance [B]:  
Sartre, *The Flies*  
**Topic submission narrative for research project due**

Week 8:  
Searching for humanity:  
Camus, *The Plague*, pt. 1  
**Critical Response Paper 3**

Week 9:  
Camus, *The Plague*, pt. 2  
**Annotated bibliography for research project due**

Week 10:  
Remembering the Holocaust amid the urban landscape:  
Modiano, *Dora Bruder*

Week 11:  
North African memories of the war:  
Rachid Bouchareb, *Days of Glory* (Film)  
**Detailed outline of research project report due**

Week 12:  
Searching the war for ethics and aesthetics in the 21st century:  
Binet, *HHhH*

Week 13:  
Student Presentations of Individual Projects

Week 14:  
Student Presentations of Individual Projects  
**10 – 20 page written report on research project due**
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DHR, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
   FSTC 470: Quality Assurance For The Food Industry
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Principles of food system process control including statistical process control (SPC) and the "tools" required to assure uniform communication and understanding of quality assurance systems.

5. Prerequisite(s):

   Cross-listed with: ANSC 470
   Stacked with: FSTC/ANSC 670

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☐ Yes ☑ No If yes, from _____ to _____
7. Is this a repeatable course? ☑ Yes ☐ No If yes, this course may be taken _____ times.
8. Will this course be repeated within the same semester? ☐ Yes ☑ No
9. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No
10. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLMD)
11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

   Undergraduate Students in Food Science and Animal Science

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
13. Prefix: FSTC 470
    Course #: Title (excluding punctuation): Quality Assurance Food Ind

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Approval recommended by:

Boon Chew 9/28/15
Department Head or Program Chair (Type Name & Sign)
Date

Robert Knight 9/30/15
Chair, College Review Committee
Date

Mark Hussey 9/29/15
Dean of College
Date

H. Russell Cross 9/29/15
Department Head or Program Chair (Type Name & Sign)
(if cross-listed course)
Date

Kim Dooley 9/29/15
Chair, G/C or UCC
Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
ANSC/FSTC 470/670 - QUALITY ASSURANCE FOR THE FOOD INDUSTRY- FALL SEMESTER 2016

INSTRUCTOR: W.N. Osburn
338D Kleberg; Ph: 979-845-3989; E-mail: osburnw@tamu.edu
Office Hours: Fridays 10-12:00 or By Appointment.

LECTURE: TTH 8:00-9:15; KLCT 300

OBJECTIVES:
1. To provide an understanding of the principles of quality and primary strategies for implementation of Quality Systems in the food industry.
2. To provide a fundamental basis for the principles of food system process control including statistical process control (SPC) and the "tools" required to assure uniform communication and understanding of quality assurance systems.
3. Use quality teams to provide knowledge and application of philosophical and analytical tools required for successful implementation of quality assurance programs in the food industry.

STUDENT LEARNING OUTCOMES:
By the end of this course, students will be able to
1. Apply critical thinking skills to define a problem, identify potential causes and possible solutions, and make thoughtful recommendations.
2. Work as a member of a team to solve a problem and report findings via oral and written communication.
3. Develop product standards and specifications.
4. Use statistical process control techniques to construct control charts.
5. Explain the interrelationship between food safety and quality systems.

SUPPLEMENTAL READING (No required texts)
Covey, S. 1989. The Seven Habits of Highly Effective People. Simon & Schuster. NY.
Specific readings will be established for classroom discussion.

Grading and Class Assignments/Projects:
All students must take three class exams and one class final,

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<td>Team Quality Problem Solving Project Report</td>
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<td>Dec 20XX</td>
<td>Personal Mission Statement</td>
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**DESCRIPTION OF UNDERGRADUATE STUDENT ASSIGNMENTS:** The following assignments are requirements for undergraduate students in this course.

a) Assignment I: "Quality Guru" paper
Students will select one "founder" or "guru" of "Quality Systems" and write a one to two page paper on how their philosophy of quality impacted current quality management systems.

b) Assignment II: Statistical Process Control
Take home assignments on statistical process control (SPC) include calculations of Z values and process capability and construction of X-bar and R charts, Np charts, etc. Dates vary during the semester.

c) Assignment III: Team Project Report and Presentation Assignment
1. You will be formed into Quality Improvement Teams (3-4 persons per team)
2. Each team will be given a scenario with a dataset involving quality issues or problems of a specific food product (dairy, cereals and grains, fruits and vegetables, muscle foods, etc.).
3. Utilizing the scenario information, plus skills learned in lecture and lab (Team problem solving, Tools of quality, SPC) your team is to use the six step problem solving process to:
   a. utilize data provided to construct statistical process control charts;
   b. from the control charts and information given - identify and define the problem,
   c. determine the cause(s) of the problem based on your statistical analysis,
   d. generate potential solutions to solve the cause(s) of the problem,
   e. analyze each potential solution for its advantages and disadvantages,
   f. recommend the "best" solution (feasible, suitable, cost effective, etc.), and
   g. develop an action plan and timeline for implementing the proposed solution and how the solution will be evaluated to determine its effectiveness.
4. Each team will prepare a written report and PowerPoint slide presentation to the fictional Chief Operating Officer and/or President of the respective company that you are working for.
5. A separate handout detailing what is expected of each team will be provided.

d) Assignment IV: Mission Statement Preparation (Covey).
Each student will be responsible to develop and critique a personal mission statement using the principles and procedures outlined by Covey. This statement will be required and will be based on software program materials to be made available for student use found at the address:
DESCRIPTION OF GRADUATE STUDENT ASSIGNMENTS: The following assignments are requirements for graduate students in this course.

a) Assignment I: Quality Food Systems Research Paper
Students will write a research proposal framework/outline for an eight to ten page research paper explaining how quality management systems can be used to solve a specific food production system (dairy, fruits and vegetables, cereal grains, muscle foods, beef, pork or poultry production systems, etc.) problem area and explain how the application of quality systems principles could positively impact the quality and/or efficiency of that food system.

b) Assignment II: Statistical Process Control
Several take home assignment on statistical process control (SPC). Assignments will include calculations of Z values and process capability and construction of X-bar and R charts, Np charts, etc. Dates vary throughout the semester.

c) Assignment III: Team Project Report and Presentation Assignment
1. You will be formed into Quality Improvement Teams (3-4 persons per team)
2. Each graduate student team must collect their own dataset to be used to develop SPC charts and identifying areas for quality improvements. This dataset can be from research projects or collected from various Animal Science/Food Science facilities (Meat Science Center, Extrusion Lab, etc.) or other food/campus entity.
3. Utilizing the scenario information, plus skills learned in lecture and lab (Team problem solving, Tools of quality, SPC) your team is to use the six step problem solving process to:
   a. utilize data provided to construct statistical process control charts;
   b. from the control charts and information given - identify and define the problem,
   c. determine the cause(s) of the problem based on your statistical analysis,
   d. generate potential solutions to solve the cause(s) of the problem,
   e. analyze each potential solution for its advantages and disadvantages,
   f. recommend the "best" solution (feasible, suitable, cost effective, etc.), and
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TOPICS FOR CLASS LECTURE & DISCUSSION:

I. Principles for Total Quality Management
   a. Defining Quality
   b. Philosophies - Deming, Crosby, Juran, Shewhart

II. Quality Leadership
   a. Project team development
   b. Quality Improvement Cycle
   c. Teambuilding, Communication and Interpersonal Skills

III. Quality Problem Solving
   a. Quality Problem Solving and Management
   b. Problem Solving Process
      i. Problem Identification, Definition, Diagnosis
      ii. Alternative Generation and Evaluation
   c. Types of Quality Problem
      i. Conformance and Efficiency Problems
      ii. Product Design and Process Problems
   d. Team Problem Solving
      i. Blueprint for successful teams
      ii. Conflict Resolution

IV. Quality Management Systems
   a. Total Quality Management
   b. ISO 9000, FSC 22000, SQF, BRC
   c. Six Sigma and Lean Manufacturing

V. The Quality Improvement Process
   a. The Ten-Step Quality Improvement Process

VI. Statistical Process Control
   a. Variation and distributions
   b. Central tendency
   c. Probability and hypothesis testing
   d. Control charts
      i. X bar and R charts
      ii. P, np and c charts
   e. Process capability

VII. The Quality Tool Box - Selected Tools for Continuous Quality Improvement
   a. Project Planning and Implementation Tools
   b. Data Collection and Analysis Tools
   c. Evaluation and Decision-Making Tools

VIII. Applications of Quality Improvement
   a. Team Project Report and Presentations

IX. Interrelationship Between Quality Assurance/Control and Food Safety Programs
### Course Schedule

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### COURSE REQUIREMENTS

**Attendance:** Since student participation during discussion sessions is an important aspect of this course, students are expected to attend all sessions. Attendance will be documented using an attendance sheet that must be signed by students in class. Absences will be excused only upon approval of instructors in advance of the class session in question. Five points per unexcused absence will be deducted from your final grade. For more information see TAMU Student Rule 7 – Attendance: [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)
Make-up Work/Auditing Policy

Regular attendance and participation in the course is expected of all students. Anticipated absences should be cleared with the instructor prior to the absence, if possible. Emergency absences (serious illness, injury, death, etc.) should be reported as soon as possible. An excuse may be necessary for more than three absences. Those students auditing the course are expected to participate in all class sessions. Make-up work will be allowed under extenuating circumstances for which written excuses are provided.

Americans with Disabilities Act

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 979-845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity and Honesty

It is the personal responsibility of each student to maintain the highest level of scholastic integrity at the university by refusing to participate in or tolerate any form of scholastic dishonesty. Additional information may be obtained from the Student Handbook or at the Handbook website http://student-rules.tamu.edu/index.htm, http://student-rules.tamu.edu/rules20.htm.

Copyright

The handouts used in this course are copyrighted. By "handout", I mean all materials generated for this class, which include but are not limited to syllabi, in-class materials, and handouts. You do not have the right to copy the handouts, unless I expressly grant permission.

Plagiarism

Plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. You are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues.

Aggie Code of Honor

For many years, Aggies have followed a Code of Honor in an effort to unify the aims of all Aggies toward a high code of ethics and dignity. It functions as a symbol to all Aggies, promoting understanding and loyalty in truth and confidence in each other. "Aggies do not lie, cheat or steal; or tolerate those who do." If you have any questions regarding plagiarism or cheating, please consult the Texas A&M University Student Rules, under the section Scholastic Dishonesty. http://aggiehonor.tamu.edu.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): International Studies
3. Course prefix, number and complete title of course: GERM 104: Intensive Beginning German

4. Catalog course description (not to exceed 30 words): Accelerated elementary language study, with oral, listening, reading, and writing practice. Equivalent to GERM 101 and GERM 102.

5. Prerequisite(s): None
Cross-listed with: Stacked with:

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☐ Yes  ☑ No If yes, from _________ to _________
7. Is this a repeatable course? ☐ Yes  ☑ No If yes, this course may be taken _________ times.
Will this course be repeated within the same semester? ☐ Yes  ☑ No
8. Will this course be submitted to the Core Curriculum Council? ☑ Yes  ☐ No
9. How will this course be graded? ☑ Grade  ☐ S/U  ☐ P/F (CLMD)
10. This course will be:
  a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
  b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. in Modern Languages: German; B.A. in International Studies; undergraduate general academics

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vp.rmu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
GERM  104  Intensive Beginning German

<table>
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<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
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Approved by:
Robert R. Sandley  9/21/15
Department Head or Program Chair (Type Name & Sign) Date

Nancy J. McBride  10-20-15
Chair, College Review Committee Date

J. Smith  10-20-15
Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
GERM 104-500 Intensive Beginning German

Dr. Thomas Siefert
office: Academic 229D
phone: 845-2124 (INTS main office)
e-mail: siefert@tamu.edu
office hours: MW 2:00-4:00, or by appointment

Texas A&M University
Fall 2016
MTWF 8:00-10:00
ACAD 123

Course description
Accelerated elementary language study, with oral, listening, reading, and writing practice. Equivalent to GERM 101 and GERM 102. 8 semester credit hours.
By course's end, students develop their German language skills and their awareness of German-speaking cultures to approximately the "novice mid" or "novice high" level, according to the standards of ACTFL (The American Council on the Teaching of Foreign Languages).

Learning outcomes
By the end of the course, students should have a basic vocabulary of approximately 1000+ words and will be able to:
- speak spontaneously and successfully in informal contexts with native speakers,
- understand spoken German about familiar topics,
- recognize words and identify some themes in German about unfamiliar topics,
- read simple texts intended for learners of German,
- approach productively the reading of shorter texts intended for native speakers, with the assistance of a glossary or dictionary,
- write short texts that would be comprehensible to a native speaker.

After completing the course, students will be ready for, and are urged to enroll in, GERM 201 Intermediate German or in GERM 204 Intensive Intermediate German.

Prerequisites
None.

A student enrolling for the first time in a Texas A&M University foreign language course who has previously acquired knowledge of that foreign language, whether acquired through high school study or cultural/family experience, and who has not received college credit for that language must take a placement exam to determine the appropriate course for her/his level of ability. Information regarding the placement exam, as well as who qualifies for it, is posted on the INTS website: http://internationalstudies.tamu.edu/html/placementexams.html. Dates and times can be found on marketplace.tamu.edu ➔ Dept. of International Studies ➔ Placement Exams. Questions can be directed to the appropriate academic advisor for International Studies, currently Nancy Neil (neil123@tamu.edu).

Required course materials
Students need this textbook and its "Supersite Code." The hardcover textbook and Supersite Code are sold together as a package. This package will be ordered in advance for the TAMU bookstore and be available there. If students wish, they may also purchase the book directly from the publisher by visiting: http://vistahigherlearning.com/students/store/german-programs/sag-mal.html.

Students must check eCampus (ecampus.tamu.edu) and their TAMU email accounts daily for homework assignments, course announcements and resources.

Recommended course materials
A paper German-English dictionary is strongly recommended. Most any available dictionary (from basic to advanced) should suffice – check with the instructor if you are not sure which one to acquire. Online German-English dictionaries are also of course available (for example: www.dict.cc or dict.leo.org), but they may have some drawbacks if one is not familiar with how to use them.

**Please note: Google-Translate is NOT a dictionary and is not allowed for use in this course. Google-Translate is of poor quality for German-to-English and English-to-German translating.**
Absences
Course attendance is required. After the third unexcused absence, 5 percentage points will be deducted from the final course grade for each additional unexcused absence. Arriving more than 15 minutes late for class will be considered as an absence, except in the case of university-approved excuse. Three late arrivals of less than 15 minutes will be considered collectively as an absence, except in the case of university-approved excuse. Please see http://student-rules.tamu.edu/rule07 for current policy on university-excused absences. For illness- or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional's confirmation that absence from class was necessary (see Rule 7.1.6.1).

Classroom policies
The following classroom policies exist so as to promote a sense of community and active communal learning. In learning a foreign language, attention to your fellow students and instructor is of utmost importance.
- Only German is expected to be spoken in the classroom.
- All students are to attempt to speak in the classroom during every meeting.
- You are to use each other's names when speaking.
- Unless the instructor has set up a question or an activity as free discussion, students should raise a hand or say, “Bitte?” and wait to be called upon before speaking, so as to provide everyone an opportunity and avoid undue dominance by too few students.
- All cell phones, laptops, tablets and any other electronic devices must be turned off and stowed out of sight in the classroom (during class and exam periods).

Grading scale
A=90-100%; B=80-89%; C=70-79%; D=60-69%; F=0-59%

Course grade
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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Hausaufgaben (Homework)</td>
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<tr>
<td>Prüfungen (Tests) [7 x 5% each]</td>
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<tr>
<td>Final Sketches and Presentations</td>
<td>5%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>10%</td>
</tr>
</tbody>
</table>

Homework
There will be daily homework. Daily assignments (online and written) with their due dates will be posted to the Vista Supersite and to eCampus. Homework will be graded as “check plus,” “check,” or “check minus.” “Check plus” counts as a 100; “check” as a 90; and “check minus” as an 80. Homework may be submitted as late, up to 1 day after the due date, for 50% credit; homework that is not submitted or that is handed in more than one day after the due date will receive a 0 (zero). In the case of university-approved excused absence, homework will be accepted without penalty under the guidelines outlined at http://student-rules.tamu.edu/rule07.

Final Sketches and Presentations
A detailed rubric on the final sketches will be posted to eCampus which details the parameters of the presentation, including length and subject matter. Students will perform ungraded impromptu informal sketches or presentations throughout the semester, in teams of two or three students, as preparation for the Final Sketches and Presentations. Students are not to read from scripts or notes during performances. For the Final Sketches and Presentations, students may prepare a pre-recorded video (or audio) in place of a live one, as long as it is submitted in time for viewing / listening by the class on the due date. Student teams must meet and communicate outside of class in advance of the due date for the Final Sketches and Presentations, in order to prepare successful ones.

Tests
Seven chapter tests are scheduled throughout the semester and will each be 60 minutes long.

Final Exam
The final exam is cumulative.
Academic integrity
"An Aggie does not lie, cheat, or steal, or tolerate those who do." You are expected to be aware of the Aggie Honor Code and the Honor Council Rules and Procedures, stated at aggiehonor.tamu.edu.

Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute providing comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, B-118 Cain Hall (phone: 845-1637). For additional information, visit: http://disability.tamu.edu.

Daily plan
The following plan is designed around the course textbook, Sag Mal. We will cover the entire book this semester.

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<thead>
<tr>
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<th>Montag</th>
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**Final Exam:** To be given on date/time set by Registrar for classes meeting MWF 8:00-9:00.
Texas A&M University
Departmental Request for a New Course
Undergraduate □ Graduate □ Professional
- Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   International Studies
3. Course prefix, number and complete title of course:
   GERM 204: Intensive Intermediate German
4. Catalog course description (not to exceed 50 words):
   Accelerated intermediate-level language study, with oral, listening, reading, and writing practice. Equivalent to GERM 201 and GERM 202.
5. Prerequisite(s):
   GERM 102 or 104
   Cross-listed with:
   Stacked with:
   (Cross-listed courses require the signature of both department heads.)
6. Is this a variable credit course? □ Yes □ No
   If yes, from _____ to _____
7. Is this a repeatable course? □ Yes □ No
   If yes, this course may be taken _____ times.
8. Will this course be repeated within the same semester? □ Yes □ No
9. Will this course be submitted to the Core Curriculum Council? □ Yes □ No
10. How will this course be graded:
    □ Grade □ S/U □ P/F (CLMD)
11. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
    B.A. in Modern Languages: German; B.A. in International Studies: undergraduate general academics
12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education)
13. Prefix Course # Title (excluding punctuation)
    GERM 204 Intensive Intermediate German
    
    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | HICE Code |
    |-------|-----|-------|-----|------------------|-------------|------------|-----------|
    | 6.00  | 0.00| 0.00  | 6.00| 1605000001       | 1663        | 16         | 00 3 6 3 2 |
    
    Approval recommended by:
    Robert R. Shandley
    Department Head or Program Chair (Type Name & Sign) Date
    
    Department Head or Program Chair (Type Name & Sign) Date
    (if cross-listed course)
    
    Submitted to Coordinating Board by:
    
    Associate Director, Curricular Services
    
    Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
    Curricular Services – 07/14
GERM 204-500 Intensive Intermediate German

Dr. Thomas Siefert
office: Academic 229D
phone: 845-2124 (INTS main office)
e-mail: siefert@tamu.edu
office hours: MW 2:00-4:00, or by appointment

Texas A&M University
Spring 2017
MWF 8:00-10:00
ACAD 123

Course description
Accelerated intermediate-level language study, with oral, listening, reading, and writing practice. Equivalent to GERM 201 and GERM 202. 6 semester credit hours.
By course’s end, students develop their German language skills and their awareness of German-speaking cultures to approximately the “intermediate low” or “intermediate mid” level, according to the standards of ACTFL (The American Council on the Teaching of Foreign Languages).

Learning outcomes
Upon completion of the course students will be able to:
- demonstrate German-language skills at the B1 level of the Common European Framework of Reference for Languages or approximately the “intermediate low” or “intermediate mid” level, according to the standards of ACTFL (The American Council on the Teaching of Foreign Languages);
- recognize distinctive viewpoints only available through knowledge of the foreign language and its cultures;
- compare their own culture through a deeper understanding of German history and culture;
- participate in multilingual communities at home and around the world.

Prerequisites
GERM 102 or GERM 104.

A student enrolling for the first time in a Texas A&M University foreign language course who has previously acquired knowledge of that foreign language, whether acquired through high school study or cultural/family experience, and who has not received college credit for that language must take a placement exam to determine the appropriate course for her/his level of ability. Information regarding the placement exam, as well as who qualifies for it, is posted on the INTS website: http://internationalstudies.tamu.edu/html/placementexams.html. Dates and times can be found on marketplace.tamu.edu → Dept. of International Studies → Placement Exams. Questions can be directed to the appropriate academic advisor for International Studies, currently Nancy Neil (neil23@tamu.edu).

Required course materials
Students need this textbook and its “Supersite Code.” The paperback textbook and Supersite Code are sold together in a package. This package has been ordered in advance for the TAMU bookstore. If students wish, they may also purchase the book directly from the publisher by visiting: http://vistahigherlearning.com/students/store/german-programs/denk-mal-2nd-edition.html.

Students must check eCampus (ecampus.tamu.edu) and their TAMU email accounts daily for homework assignments, course announcements and resources.

Recommended course materials
A paper German-English dictionary is strongly recommended. Most any available dictionary (from basic to advanced) should suffice – check with the instructor if you are not sure which one to acquire. Online German-English dictionaries are also of course available (for example: www.diet.cc or diet.leo.org), but they may have some drawbacks if one is not familiar with how to use them.

**Please note: Google-Translate is NOT a dictionary and is not allowed for use in this course. Google-Translate is of poor quality for German-to-English and English-to-German translating.**
Absences
Course attendance is required. After the third unexcused absence, 5 percentage points will be deducted from the final course grade for each additional unexcused absence. Arriving more than 15 minutes late for class will be considered as an absence, except in the case of university-approved excuse. Three late arrivals of less than 15 minutes will be considered collectively as an absence, except in the case of university-approved excuse. Please see http://student-rules.tamu.edu/rule07 for current policy on university-excused absences. For illness- or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional’s confirmation that absence from class was necessary (see Rule 7.1.6.1).

Classroom policies
The following classroom policies exist so as to promote a sense of community and active communal learning. In learning a foreign language, attention to your fellow students and instructor is of utmost importance.
- Only German is expected to be spoken in the classroom.
- All students are to attempt to speak in the classroom during every meeting.
- You are to use each other’s names when speaking.
- Unless the instructor has set up a question or an activity as free discussion, students should raise a hand or say, “Bitte?” and wait to be called upon before speaking, so as to provide everyone an opportunity and avoid undue dominance by too few students.
- All cell phones, laptops, tablets and any other electronic devices must be turned off and stowed out of sight in the classroom (during class and exam periods).

Grading scale
A=90-100%; B=80-89%; C=70-79%; D=60-69%; F=0-59%

Course grade
Homework: 30%
Tests (Prüfungen) [5 x 6% each]: 30%
Friday Speaking Activities [4 x 2.5% each]: 10%
Final Audio or Video projects: 10%
Participation: 5%
Final Exam: 15%

Homework
There will be daily homework. Daily assignments (online and written) with their due dates will be posted to the Vista Supersite and to eCampus. Homework will be graded as “check plus,” “check,” or “check minus.” “Check plus” counts as a 100; “check” as a 90; and “check minus” as an 80. Homework may be submitted as late, up to 1 day after the due date, for 50% credit; homework that is not submitted or that is handed in more than one day after the due date will receive a 0 (zero). In the case of university-approved excused absence, homework will be accepted without penalty under the guidelines outlined at http://student-rules.tamu.edu/rule07.

Quizzes
Five quizzes are scheduled throughout the semester and will each be 60 minutes long.

Friday Speaking Activities
On four Fridays (see schedule), students must perform a speaking activity, in teams of two or three, sitting or standing in the front of the classroom. There are three types:
1) The activity may be a conversation for the rest of the class to watch, in which case as many new vocabulary words as possible from the current chapter should be incorporated and every time a new vocabulary word is used, this should be indicated to the audience.
2) The activity may also be a dramatic reading of any text that the class has read, in which case the students must read the text aloud in any engaging way.
3) The activity may be a re-play of any scenes from any of the short films that we have watched (one short film accompanies each chapter of the textbook).
Students must not read from scripts or notes during their speaking activity; rather, they must make eye contact with teammates or audience members while speaking. Even for the dramatic readings, students must lift their eyes from the text and address the audience or their teammates in the eyes whenever speaking. Students may prepare a pre-recorded video (or audio) in place of a live one, as long as it is submitted in time for viewing/listening by the class on the due date. No speaking activities may be done after the due date, except in the case of a university-excused absence. Student teams must meet and communicate outside of class in advance of the due date, in order to prepare successful activities.

Final Audio or Video Projects
All students will submit a final, recorded project that the rest of the class will listen to or watch. The Friday speaking activities are intended as training for this final project. The final projects are to be of the same types as the Friday speaking activities, detailed above. Students will work in teams of two or three on the Final Audio or Video Projects. The pre-recorded performance must be submitted in time for viewing/listening by the class on the due date. No Final Audio or Video Projects may be done after the due date, except in the case of a university-excused absence. Student teams must meet and communicate outside of class in advance of the due date, in order to prepare successful projects.

Final Exam
The final exam is cumulative.

Academic integrity
"An Aggie does not lie, cheat, or steal, or tolerate those who do." You are expected to be aware of the Aggie Honor Code and the Honor Council Rules and Procedures, stated at aggiehonor.tamu.edu.

Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute providing comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, B-118 Cain Hall (phone: 845-1637). For additional information, visit http://disability.tamu.edu.

Daily plan
This course will cover all 10 chapters of the textbook, Denk Mal. The following plan is subject to change.

<table>
<thead>
<tr>
<th>Woche 1</th>
<th>Montag</th>
<th>Mittwoch</th>
<th>Freitag</th>
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</thead>
<tbody>
<tr>
<td>Kapitel 1</td>
<td>1/18</td>
<td>Hallo!</td>
<td>1/20</td>
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<td>Zusammen leben</td>
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<td>Kapitel 2</td>
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<tr>
<td>Kapitel 4</td>
<td>2/13</td>
<td>2/15</td>
<td>2/17</td>
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<td>Prüfung 2</td>
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<td>Lektion 5</td>
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<td>3/6</td>
<td>3/8</td>
<td>3/10</td>
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<td>Traditionen und Spezialitäten</td>
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Frühlingsferien!

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<tr>
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<td>4/5</td>
<td>4/7</td>
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<td>Prüfung 4</td>
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<td>Kapitel 8</td>
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<td>Recht und Umwelt</td>
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<tr>
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<td>4/10</td>
<td>4/12</td>
<td>4/14 – Lesetag</td>
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<td>4/19</td>
<td>4/21</td>
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<td>Woche 14</td>
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<td>4/28</td>
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<td>Final Sketches and Presentations</td>
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**Final Exam:** To be given on date/time set by Registrar for classes meeting MWF 8:00-9:00.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   International Studies

3. Course prefix, number and complete title of course:
   GERM 430: Global Germany

4. Catalog course description (not to exceed 50 words):
   Impact of globalization on Germany and the globalization of German life and culture from postwar period to the present; analysis of theoretical, historical, fictional and/or cinematic works presenting relationship of modern Germany with world affairs. Course conducted in English.

5. Prerequisite(s): Junior or senior classification; or approval of instructor.

6. Is this a variable credit course? [✓] Yes [ ] No
   If yes, from ______ to ______

7. Is this a repeatable course? [✓] Yes [ ] No
   If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? [ ] Yes [✓] No

9. Will this course be submitted to the Core Curriculum Council? [✓] Yes [ ] No

10. How will this course be graded: [✓] Grade [ ] S/U [ ] P/F (CLMD)

11. This course will be:

   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.A. in Modern Languages: German; B.A. in International Studies; undergraduate general academics

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix Course# Title (excluding punctuation)
   GERM 430 Global Germany

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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   Approval recommended by: Robert R. Shandley

   Department Head or Program Chair (Type Name & Sign) Date 10/1/2015

   Nancy J. Street 10-20-15

   Chair, College Review Committee

   Dean of College Department Head or Program Chair (Type Name & Sign) Date 10-20-15

   Submitted to Coordinating Board by:

   Chair, GC or UCC

   Date

   Effective Date Submitted by: Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or swilliams@tamu.edu.

   Curricular Services - 07/14
GERM 430-500 Global Germany

Dr. Ashley Passmore
Texas A&M University
office: Academic 231
phone: 845-2124 (INTS main office)
e-mail: apassmore@tamu.edu
office hours: TR 11:00-1:00, or by appointment

Texas A&M University
Fall 2016
TR 9:35-10:50
ACAD 123

Course description
In this course, we will look at the impact of globalization on Germany and the globalization of German life and culture from recent history up to the present. We will look at theoretical, historical and fictional texts to explore modern Germany’s relationship with, and influence on, world affairs. Topics will include the movement from German East-West unity to a global culture, the history of the German Turkish population, German environmentalism, and Germany’s role in the EU and in the world economy. Course is conducted in English.

Prerequisites
Junior or senior classification, or approval of instructor.

Learning outcomes
At the end of the semester, students will be able to:

- define the social and cultural issues that shape the contemporary debates about globalization in Germany;
- articulate cultural comparisons between North American and German/European Union contemporary societies through critical thinking skills in spoken and written form;
- express reasoned opinions on contemporary issues of German globalization in the form of informed debate and response;
- demonstrate familiarity with media sources about Germany and current German political and cultural affairs.

Required course materials

- Jana Hensel, After the Wall: Confessions from an East German Childhood and the Life that Came Next. Public Affairs, 2009.
- All other readings will be posted to eCampus.
- All films available through mediamatrix.tamu.edu.

Course requirements and evaluation

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<tbody>
<tr>
<td>Presentation</td>
<td>10%</td>
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<tr>
<td>2 Response papers</td>
<td>40%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Final take-home essay exam</td>
<td>40%</td>
</tr>
</tbody>
</table>

Grading scale: 90-100=A; 80-89=B; 70-79=C; 60-69=D; 0-59=F

Presentation: Students will sign up for a date on which they will present to the class a current (in the past two years) news story about a relevant topic to the course (Germany and Globalization). The presentation will last 5-6 minutes and will include a short visual (one or two slides) to convey the issue being discussed in the news. A short Q&A with students may follow.

Response papers: Students will write 2 response papers (3-5 pages each, double-spaced, 12-pt font), in which they will engage directly with materials from the course.
Participation: Students are expected to prepare all reading material before the class on which it is assigned (see schedule below). Participation grade based on thoughtful questions/responses relevant to in-class activities and discussion.

Final essay exam: At the end of the semester students will be presented with a question topic and will write an essay (7-9 pages, double-spaced, 12 pt. font) incorporating material covered in class. Due date noted on schedule below.

An authorized absence entitles you to complete assignments and make up papers or exams you may have missed. You must notify the instructor at least 48 hours before the absence except in the case of emergency. Presentations, papers, and exams can be made up only after university-excused absences.

Absences
Attendance in class is mandatory. For each unexcused absence in excess of two, student’s final grade will be reduced 2 percentage points. For illness- or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional’s confirmation that absence from class was necessary (see Rule 7.1.6.1 and 7.1.6.2). University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.

Academic integrity

Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute providing comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, B-118 Cain Hall (phone: 845-1637). For additional information, visit http://disability.tamu.edu.

Please note: All electronic devices must be turned off during unless in use for on-task activity.

Semester calendar:

<table>
<thead>
<tr>
<th>Date</th>
<th>In-class</th>
<th>Reading/Viewing</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Facts about Germany today; Discussion of media resources about Germany</td>
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<tr>
<td>2</td>
<td>9/6   The German People Today</td>
<td>Jana Hensel, After the Wall: Confessions from an East German Childhood and the Life that Came Next (2009)</td>
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<tr>
<td>9/8</td>
<td>Globalization and East Germany</td>
<td>Jana Hensel, After the Wall: Confessions from an East German Childhood and the Life that Came Next (2009)</td>
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<td>9/15</td>
<td>Gastarbeiter</td>
<td>Response Paper 1 due</td>
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<td>4</td>
<td>9/20</td>
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<tr>
<td>Date</td>
<td>In-class</td>
<td>Reading/Viewing</td>
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<tr>
<td>9/29</td>
<td>Turkish Germany on Film</td>
<td><em>The Edge of Heaven</em>, Fatih Akin (2007) (Film)</td>
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<tr>
<td>10/4</td>
<td></td>
<td><em>Soul Kitchen</em>, Fatih Akin (2009) (Film)</td>
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<tr>
<td>11/1</td>
<td>Circular Migration and the Legacy of the Holocaust</td>
<td><em>Farewell Herr Schwartz</em>, Yael Reuveny (2015) (Film)</td>
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<td>11/3</td>
<td>Germany and the EU</td>
<td>Ulrich Beck, <em>German Europe</em>, pp. 1-38</td>
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<tr>
<td>11/8</td>
<td></td>
<td>Ulrich Beck, <em>German Europe</em>, pp. 39-65</td>
</tr>
<tr>
<td>11/15</td>
<td></td>
<td>Ulrich Beck, <em>German Europe</em>, pp. 66-86</td>
</tr>
<tr>
<td>11/24</td>
<td>No Class – Thanksgiving Holiday</td>
<td></td>
</tr>
<tr>
<td>12/1</td>
<td>How Green After All?</td>
<td>Frank Uekötter, <em>The Greenest Nation</em>, pp. 177-184</td>
</tr>
<tr>
<td>12/6</td>
<td>Conclusion, Discussion of take home essay exam</td>
<td></td>
</tr>
</tbody>
</table>

The final take-home essay exam will be due by 12:00 pm (noon) on Monday, December 12. Electronic submission via TurnInn on eCampus.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DOS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): International Studies
3. Course prefix, number and complete title of course: GERM 431: Representations of the Holocaust

4. Catalog course description (not to exceed 50 words):
Analysis of artistic mediations of the Holocaust across diverse textual and visual media with particular focus on aesthetic, political, pedagogical, and ethical challenges. Course conducted in English.

5. Prerequisite(s): Junior or senior classification; or approval of instructor.

6. Is this a variable credit course? ☑ No If yes, from _______ to _______.
7. Is this a repeatable course? ☑ No If yes, this course may be taken ______ times.
8. Will this course be repeated within the same semester? ☑ No
9. Will this course be submitted to the Core Curriculum Council? ☑ No
10. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLMD)

11. This course will be:
a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. in Modern Languages: German; B.A. in International Studies; undergraduate general academics

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>GERM</th>
<th>431</th>
<th>Representations of the Holocaust</th>
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<td>Lect.</td>
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Approval recommended by:
Robert R. Shandley
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date
Dean of College Date
Submitted to Coordinating Board by: Chair, GC or UCC Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
GERM 431 • Representations of the Holocaust

Dr. Stefanie Harris
Office: ACAD 106b
Office hours: Thurs, 11:00-12:30, or by appt.
stefanieharris@tamu.edu
phone: 845-2124 (INTS main office)

Texas A&M University
Spring 2016
Class meeting: TR 9:35-10:50
ACAD 226

Course description
Analysis of artistic mediations of the Holocaust across diverse textual and visual media with particular focus on aesthetic, political, pedagogical, and ethical challenges.
Course examines the complex field of Holocaust representation, drawing from a range of media and genres, including poetry, memoir, fiction, graphic novel, theater, photography, documentary and feature film, short films, monuments and memorials, and digital projects on the world wide web.
Some questions we will explore include: What is the relationship between the historical event and representations of it, between what happened and how it is passed down to us? How has memory and awareness of the Holocaust been produced and transmitted through representational practices and cultural forms? Are some media more suitable to the task than others? What are the problems and limits of language? How has the cultural realm contributed to the development of post-Holocaust German and Jewish identities?
Course is conducted in English.

Prerequisites
Junior or senior classification, or approval of instructor.

Learning outcomes
Upon completion of the course, students will be able to:
• Evaluate and analyze representations of the Holocaust across different media;
• Articulate critical, reasoned positions verbally and in writing on the artistic mediation of traumatic historical events;
• Recognize potential ethical dilemmas in the representation of traumatic events and apply rational decision-making in order to address such challenges.

Required course materials
David Engel, *The Holocaust: The Third Reich and the Jews*
Primo Levi, *Survival in Auschwitz*
Ruth Klüger, *Still Alive: A Holocaust Girlhood Remembered*
Jurek Becker, *Jacob the Liar*
Peter Weiss, *The Investigation*
Art Spiegelman, *Maus I: A Survivor’s Tale. My Father Bleeds History*

All other course readings will be available through eCampus.
All films will be available for digital streaming through: mediamatrix.tamu.edu

Course requirements and evaluation
4 response papers w/ discussion questions 30%
Essay 30%
Midterm 20%
Final 20%

Grading scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F

Response papers: Students will be divided into Groups A, B, or C and will submit four response papers during the semester, due in class on Tuesday of the weeks to which their group has been assigned (example: Group A has been assigned Week 2; see syllabus for all group assignments). Response papers should be at least 500 words, typed, and brought to class in hard copy. These papers should synthesize the
reading of the week, and draw out one or two specific points for further analysis. In addition, each paper must include at least one substantive discussion question for the class to pursue. Response papers will each be worth a possible 10 points, awarded on the basis of how they exhibit your understanding of and engagement with the material due. Papers must engage that week’s course materials and must include a substantive discussion question in order to be awarded full points. Late papers will be penalized 2 points, except in the case of university-approved excuse. Papers submitted more than one week after the due date will receive zero points, except in the case of university-approved excused absence.

**Essay:** 2500 word essay should address one or more course materials in detail, and may be an expansion of a response paper submitted earlier in the semester. Students are free to develop their own essay topics; however, suggested topics will be posted to eCampus. Essays submitted after the due date will be deducted 10 percentage points from the essay grade, except in the case of university-approved excused absence. Essays will be submitted electronically through “Turnitin” on eCampus.

**Midterm and Final:** Exams will test material covered in screenings, readings, lectures, and class discussions, and will consist of short answer questions. Exams cannot be made up except in the case of a university-approved excused absence.

**Absences**
Attendance in class is mandatory. For each excused absence in excess of three, student’s final grade will be reduced 5 full percentage points. Attendance is essential to complete the course successfully. For illness- or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional’s confirmation that absence from class was necessary (see Rule 7.1.6.1 and 7.1.6.2). University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

**Academic integrity**
“An Aggie does not lie, cheat, or steal, or tolerate those who do.” You are expected to be aware of the Aggie Honor Code and the Honor Council Rules and Procedures, stated at [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu).

**Disabilities**
The *Americans with Disabilities Act* (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Semester Calendar**
Complete all assigned readings and view all films prior to Tuesday class meeting of week in which they are assigned.

<table>
<thead>
<tr>
<th>Reading/Viewing</th>
<th>Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Introduction</td>
<td>Saul Friedlander, “The ‘Final Solution’: Cn the Unease in Historical Representation” Irving Howe, “Writing and the Holocaust” David Engel, <em>The Holocaust: The Third Reich and the Jews</em></td>
</tr>
<tr>
<td><strong>2</strong> Poetry</td>
<td>Selections from: Paul Celan, Dan Pagis, Nelly Sachs Theodor Adorno, “Cultural Criticism and Society” Group A response paper due Tuesday</td>
</tr>
<tr>
<td>Reading/Viewing</td>
<td>Due Dates</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>4 Historikerstreit/ Historians’ Controversy</td>
<td>Group C response paper due Tuesday</td>
</tr>
<tr>
<td>5 Literature</td>
<td>Group A response paper due Tuesday</td>
</tr>
<tr>
<td>Jurek Becker, <em>Jacob the Liar</em></td>
<td></td>
</tr>
<tr>
<td>6 Testimony and Documentary</td>
<td>Group B response paper due Tuesday</td>
</tr>
<tr>
<td>Yale Fortunoff Video Archive for Holocaust Testimonies Film: <em>Shoah</em>, Claude Lanzmann (excerpts)</td>
<td></td>
</tr>
<tr>
<td>7 Theater</td>
<td>Group C response paper due Tuesday <strong>Midterm exam Thursday</strong></td>
</tr>
<tr>
<td>Peter Weiss, <em>The Investigation</em></td>
<td></td>
</tr>
<tr>
<td>8 Graphic Novel</td>
<td>Group A response paper due Tuesday</td>
</tr>
<tr>
<td>Art Spiegelman, <em>Maus I: A Survivor’s Tale. My Father Bleeds History</em></td>
<td></td>
</tr>
</tbody>
</table>

**SPRING BREAK**

<table>
<thead>
<tr>
<th>Photographs</th>
<th>Group B response paper due Tuesday</th>
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</thead>
<tbody>
<tr>
<td>9 Photography</td>
<td></td>
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<tr>
<td>10 Film and Documentary</td>
<td>Group C response paper due Tuesday</td>
</tr>
<tr>
<td>Film: <em>Night and Fog</em>, Alain Resnais Film: <em>A Film Unfinished</em>, Yael Hersonski</td>
<td></td>
</tr>
<tr>
<td>11 Memorials, Monuments, Countermonuments</td>
<td>Group A response paper due Tuesday</td>
</tr>
<tr>
<td>12 Literature</td>
<td>Group B response paper due Tuesday</td>
</tr>
<tr>
<td>T. Borowski, “This Way for the Gas, Ladies and Gentlemen” W.G. Sebald, “Max Ferber” chapter of <em>The Emigrants</em></td>
<td></td>
</tr>
<tr>
<td>13 Feature Film</td>
<td>Group C response paper due Tuesday</td>
</tr>
<tr>
<td>Film: <em>Schindler’s List</em>, Steven Spielberg</td>
<td></td>
</tr>
<tr>
<td>14 Short Film</td>
<td><strong>Essay due Tuesday</strong></td>
</tr>
<tr>
<td>Short film: <em>Spielzeugland</em>, Jochen Alexander Freydank Short film: <em>Silence</em>, Orly Yadin</td>
<td></td>
</tr>
</tbody>
</table>

**FINAL EXAM** to be held on the date/time set for this class in the published schedule on the academic calendar.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

From Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (EDES, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
   IDIS 433 Industrial Sales Force Development
3. Course prefix, number and complete title of course:
4. Catalog course description (not to exceed 50 words):
   Techniques and processes for developing, maintaining and leading high performing industrial sales organizations; organizations planning and forecasting processes, processes and procedures for identifying and developing talented sales professionals who can operate within a sales process and provide solutions to customers while growing profitable accounts.

5. Prerequisite(s): Grade of C or better in IDIS 330
   Cross-listed with: Stacked with:

6. Is this a variable credit course? ☑ Yes ☐ No
   If yes, from ______ to ______
7. Is this a repeatable course? ☑ Yes ☐ No
   If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester? ☑ Yes ☐ No
8. Will this course be submitted to the Core Curriculum Council? ☑ Yes ☐ No
9. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLM)
10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://www.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

<table>
<thead>
<tr>
<th>Prefix</th>
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<th>Title (excluding punctuation)</th>
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<tr>
<td>IDIS</td>
<td>433</td>
<td>Industrial Sales Force Devel.</td>
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<td>Other</td>
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<td>3.00</td>
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<td>3.00</td>
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</tbody>
</table>

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Chair, GC or UCC Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
TEXAS A&M UNIVERSITY
IDIS 433-Industrial Sales Force Development

Instructor: Dr. Norm Clark, Jr.
Office: Fermier 205C
Office Hours:
Telephone: (979)847-9076
E-mail: nclark@tamu.edu
Website:

Section XXX – Class Time, Classroom

Course Description
Students will learn techniques and processes for developing, maintaining and leading high performing industrial sales organizations. In addition to organization, planning and forecasting processes, students will learn processes and procedures for identifying and developing talented sales professionals who can operate within a sales process that provides solutions to customers while growing profitable accounts.

Learning Outcomes
At the end of this course, students will be able to…
- identify, recruit, develop, manage and retain members of a high performing industrial sales organization
- understand the concepts and procedures involved in sales force design and compensation for maximizing profitability and employee engagement
- understand how to create sales plans by utilizing market segmentation and analysis to identify high potential opportunities
- understand how to grow and maintain profitable business through customer stratification, account analysis and lead generation
- understand effective processes for time management, organizing, planning and forecasting to ensure high performance from sales professionals

Prerequisites
- Grade of C or better in IDIS 330

Course Format
The course will consist of the presentation and demonstration of techniques and processes, class discussions, role-play exercises, case studies, class presentations, a book review, guest speakers, and exams.

Class Notes

Books

Policies and Procedures
You are expected to abide by the Aggie Honor Code. "An Aggie does not lie, cheat or steal or tolerate those who do." There is a zero tolerance for academic dishonesty. Violations will result in an "F" for the course. Additional repercussions will be determined by the program coordinator in compliance with Texas A&M regulations. http://aggiehonor.tamu.edu
**Students with Disabilities**

The Americans with Disabilities Act (ADA) is a Federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, the legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring accommodation, please contact the Disability Services, in Cain Hall, Room B118, or call 979-845-1637. For additional information visit [http://disability.tamu.edu/](http://disability.tamu.edu/).

**Attendance and Participation**

*What you will someday be, you are now becoming. Start forming good habits now.* You are expected to attend class, be punctual, display an attitude of professionalism and become actively involved in class activities and discussions. If it is necessary for you to miss a class or an Exam, please inform the instructor prior to the event. You can find the University’s rules regarding this matter at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

**Exams**

Multiple choice and short answer questions covering class discussions, presentations, case studies and any outside material assigned or discussed.

**Group Presentation**

It is your responsibility to form groups of four students at the beginning of the semester. You will work with your group members throughout the semester on assignments that will be presented to the class. These assignments will provide practical applications for materials discussed.

**A Note Concerning Group Activities**

You will experience two types of learning as a result of working in groups.

1. **Cognitive Learning through Collaboration** – the discussions generated when working in groups will expose you to different ways of looking at things and enhance your ability to think critically about what you are learning. Your retention of the information being discussed will, likely, also be increased as a result of the group discussions.

2. **Social Learning** – as in the working world, there will be challenges that will arise when working with other people. You may experience situations in which some people do not contribute, or some people try to dominate a situation. You may experience difficulty scheduling times for meetings, or agreeing upon the direction of a project. **These are your groups.** The way you choose to handle these situations is part of the learning experience. I will abide by the decisions of the group. My only involvement, if necessary, will be that of an advisor.

**SLACKERS BEWARE**—the assessment of your group members will determine a large portion of your participation grade. *If you do not participate in an assignment, you will not receive a grade for that assignment.*

**Grading**

<table>
<thead>
<tr>
<th>Exam</th>
<th>Points</th>
<th>Grade</th>
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<td>150</td>
<td>A = 900 – 1000 points</td>
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<tr>
<td>2</td>
<td>150</td>
<td>B = 800 – 899 points</td>
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<tr>
<td>Assignment 1</td>
<td>200 points</td>
<td>C = 700 – 799 points</td>
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<tr>
<td>Assignment 2</td>
<td>200 points</td>
<td>D = 600 – 699 points</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>Assignment 3</td>
<td>200 points</td>
<td>F = below 600 points</td>
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<tr>
<td>Book Review</td>
<td>150 points</td>
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<td>Participation</td>
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<td><strong>Total</strong></td>
<td><strong>1000 points</strong></td>
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**Grading of Assignments**

As I observe your presentations, I will rate them 1, 2 or 3.

1. **Nailed it!** – Demonstration of a superb understanding and application of the techniques being learned. In addition to preparation and professionalism being obvious, the presenter has developed the skills to a level that could be used in a real world situation.

2. **Good Job!** – Demonstration of a good understanding and application of the techniques being learned. Preparation and professionalism are obvious.

3. **Not-So-Good Job!** – Demonstration of a less than adequate understanding and application of the techniques being learned. Preparation and/or professionalism are obviously lacking.

Grades will be assigned to the presentations based on the performance of your group relative to the performance of other groups in the class. A typical distribution looks something like this:

1. 92-100
2. 84-91
3. 75-83

**Participation Grade**

The majority of your participation grade will be determined by the evaluation of your group members. As the instructor, I may make adjustments to your participation grade based on your attendance, punctuality and class participation.

**Tentative Schedule**

**Week 1**
Course overview and expectations, student introductions and group formation

**Week 2**
Talent identification, recruitment, development, management, and retention

**Week 3**
Sales force expectations and evaluation

*Sales Force Development Assignment*

**Week 4**
Presentation of Sales Force Development Assignment
Guest Speaker

**Week 5**
Leadership Styles and Sales Culture, Sales Force Design and Compensation

**Week 6**
Organization, Planning and Forecasting

*Book Review Assignment*

**Week 7**
Behavioral Styles and Performance Competencies

*Sales Force Culture and Design Assignment*

**Week 8**
Presentation of Sales Force Culture and Design Assignment
Guest Speaker

Week 9  Exam 1

Week 10  Identification of New Markets through Market Segmentation

Week 11  Book Review Due
          Targeting Markets and Value Propositions

Week 12  Customer Stratification and Account Analysis

Week 13  Identification of Growth Opportunities and Lead Generation
          Sales Plan Assignment

Week 14  Presentation of Sales Plan Assignment
          Guest Speaker

Week 15  Final Exam
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DMD, MD, PharmD, DVM)

2. Request submitted by (Department of Program Name): Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course: ISEN 210 Fundamentals of Industrial Engineering Design

4. Catalog course description (not to exceed 50 words):
Engineering design for product development, problem definition and need identification, information gathering and concept generation, decision making and concept selection; industrial engineering concepts including design for manufacturing, assembly, sustainability and environment; economic decision making and cost evaluation; risk, reliability and safety; quality; robust design and optimization.

5. Prerequisite(s): ENGR 112

6. Is this a variable credit course? ☑ Yes □ No If yes, from ______ to ______

7. Is this a repeatable course? ☑ Yes □ No If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? ☑ Yes □ No

9. Will this course be submitted to the Core Curriculum Council? ☑ Yes □ No

10. How will this course be graded? ☑ Grade □ S/U □ P/F (CLMD)

11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix Course # Title (excluding punctuation)

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<th>210</th>
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<tr>
<td>Lab.</td>
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Approval recommended by: Cesar O. Malave 9-8-15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or studentregistra@tamu.edu.
Curricular Services – 07/14

RECEIVED OCT 3 2015 CURRICULAR SERVICES
Course title and number  ISEN 210 Fundamentals of Industrial Engineering Design
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites

Engineering design for product development, problem definition and need identification, information gathering and concept generation, decision making and concept selection; industrial engineering concepts including design for manufacturing, assembly, sustainability and environment; economic decision making and cost evaluation; risk, reliability and safety; quality; robust design and optimization.

Prerequisite: ENGR 112

Learning Outcomes

Students will be able to

- Identify the needs and requirements for a product
- Develop alternate designs
- evaluate alternatives from the perspectives of economic criteria, manufacturability, sustainability, and reliability
- formulate and solve simple quantitative models of engineering design or operations

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material

Engineering Design 5th Edition by George Dieter and Linda Schmidt

Relevant handouts to be provided throughout the course
Grading Policies

Lab assignments: 20%, homework and quizzes: 10%, Exam 1: 20%, Exam 2: 20%, Final Exam: 30%.

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures and labs except for university excused absences. With an excused absence, it is still the student’s responsibility to find out the homework assignment and be ready for a quiz. Make-up for the exams and quizzes will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://stdent-rules.tamu.edu/rule07. Because we often begin class or labs with computer work, it is also important that you arrive on time. Students arriving to lab after the initial lab lecture has started will receive a two point deduction for that day’s lab assignment.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Engineering Design, components of design; Lab Module 1: Introduction, exploring engineering design principles</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>2</td>
<td>Product development process; Lab Module 2: Product Identification, product acquisition</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>3</td>
<td>Problem definition, identification of needs; Lab Module 2 (cont.): Product disassembly, evaluate needs, construct Bill of Material (BOM)</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>4</td>
<td>Information gathering, team formation, team behavior and tools; Lab Module 3: Acquire/ research data on product components from BOM</td>
<td>Chapters 4-5</td>
</tr>
<tr>
<td>5</td>
<td>Concept generation, Exam 1; Lab Module 3 (cont.): Evaluate component information – do they satisfy needs? Explore possible alternatives</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>6</td>
<td>Concept selection, decision making; Lab Module 4: Appropriate component</td>
<td>Chapter 7</td>
</tr>
</tbody>
</table>
selection based on needs, apply decision making tools

7 Embodiment design, detail design; Lab Module 4 (cont.): develop detailed product designs based on available information and needs; midterm lab report

Chapter 8-9

8 Design for sustainability and the environment Lab Module 5: explore sustainability and environment options for product designs; make applicable design changes

Chapter 10

9 Materials selection, design with materials Lab Module 5 (cont.): identify suitable raw material for product components satisfying needs and constraints

Chapter 11-12

10 Design for manufacturing, Exam 2 Lab Module 6: Develop production plans based on manufacturability constraints

Chapter 13

11 Risk, reliability and safety concepts; quality, robust design and optimization; Lab Module 6 (cont.): evaluate production plans to assess risk, reliability and safety

Chapter 14-15

12 Engineering economic analysis, time value of money, present worth, economic decision making; Lab Module 7: perform economic analysis to evaluate production viability

Chapter 16, handouts

13 Cost evaluation, annual and future worth, rate of return analysis; Lab Module 7 (cont.): perform product life cycle analysis from cost perspective, forecasting

Chapter 17, handouts

14 Depreciation, after-taxes economic analysis, inflation; Lab Module 8: Prepare final report, oral presentations

handouts

Final exam during week of finals

Other Pertinent Course Information

The course will use computational tools and spreadsheets to develop some of the concepts in class and
during the weekly lab meetings.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

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In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  ✓ Undergraduate  ☐ Graduate  ☐ First Professional (MD, PhD, JD, PA, HSPH)
2. Request submitted by (Department or Program Name):  Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course:  ISEN 230 Informatics for Industrial Engineers

4. Catalog course description (not to exceed 50 words):
   Structured programming concepts for implementing mathematical and statistical models in industrial engineering problems; emphasis on introductory production and service system problems and computer-based approaches to solve the problems; engineering applications of probability and statistics concepts.

5. Prerequisite(s):
   CSCE 206 or CSCE 111 or CSCE 121 or equivalent; Co-requisite: STAT 211

   Cross-listed with:  Stacked with:  Cross-listed courses require the signature of both department heads.

   6. Is this a variable credit course?  ☐ Yes  ✓ No  If yes, from ________ to ________

   7. Is this a repeatable course?  ☐ Yes  ✓ No  If yes, this course may be taken ________ times.

   Will this course be repeated within the same semester?  ☐ Yes  ✓ No

   8. Will this course be submitted to the Con Curriculum Council?  ☐ Yes  ✓ No

   9. How will this course be graded:  ✓ Grade  ☐ S/U  ☐ P/F (CLMD)

   10. This course will be:

       a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)

          B.S. in Industrial Engineering

       b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

   12. ✓ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

   13. Prefix  Course #  Title (excluding punctuation)

          ISEN  230  Informatics for Industrial Eng

          Lect.  Lab  Other  SCHL  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
          3.00  3.00  1435010006  1622  16 - 17  0 0 3 5 3 2

          Approval recommended by:

          Cesar O. Martinez  9-28-15

          (Type Name & Sign)

          (If cross-listed course)

          Department Head or Program Chair

          Date

          Chair, College Review Committee

          Date

          Dean of College

          Date

          Submitted to Coordinating Board by:

          Chair, GC or UCC

          Date

          Associate Director, Curricular Services

          Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number  ISEN 230 Informatics for Industrial Engineers
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Structured programming concepts for implementing mathematical and statistical models in industrial engineering problems; emphasis on introductory production and service system problems and computer-based approaches to solve the problems; engineering applications of probability and statistics concepts.
Prerequisites: CSCE 206 or CSCE111 or CSCE 121 or equivalent; Corequisite: STAT 211

Learning Outcomes
Students should be able to

- use spreadsheet and higher level programming language within an industrial engineering context,
- demonstrate understanding of basic terminology associated with production and service systems,
- develop simple quantitative decision models relevant to production and service systems, and
- handle data to drive models and interpret data generated from models.

Instructor Information
Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
Relevant handouts to be provided.

**Grading Policies**

Homework and quizzes: 20%; Exam 1: 20%; Exam 2: 20%; Exam 3: 20%; Final Exam: 20%

Grades assigned are A for 90%–100%, B for 80%–89.99%, C for 70%–79.99%, D for 60%–69.99% and F for less than 60%.

At any time, without warning, a short quiz based on the homework or in-class examples might be given. Quizzes and homework are 5 points. All homework assignments must be handed in at the start of the class period of the day they are due.

**Attendance and Make-up Policies**

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. With an excused absence, it is still the student's responsibility to find out the homework assignment and be ready for a quiz. Because we often begin class with computer work, it is also important that you arrive on time; otherwise, it is difficult to catch up with the class material. Make-up exams will be given in accordance with University Rules (see Rule 7 at http://student-rules.tamu.edu). The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

**Course Topics, Calendar of Activities, Major Assignment Dates**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to the course and Pivot Tables and spreadsheet formatting</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Review of objects, some spreadsheet basics, and use of higher-level programming language within a spreadsheet</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Language constructs, input and output formatting</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Worksheets, Range object. Introduction to forecasting</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Range object and language constructs continued, Exam 1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Workbooks, Application object, use of solver within spreadsheet</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Data input mechanisms</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Data display and accessibility, handling multidimensional data</td>
<td></td>
</tr>
</tbody>
</table>
Developing production problem using spreadsheet, use of solver

Introduction to some practical industrial engineering examples, Exam 2

Blending example

Product mix example

Scheduling example

Scheduling example continued, Exam 3

Other Pertinent Course Information

The course will use computational tools to solve industrial engineering problems. Students are expected to apply prior knowledge of MATLAB and higher level programming language in this course. Relevant handouts will be provided throughout the course.

Americans with Disabilities Act (ADA)

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In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*.
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

1. Course request type:  □ Undergraduate  □ Graduate  □ First Professional (DVM, MD, JD, PharmaD, DPM)
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course: ISEN 310 Uncertainty Modeling for Industrial Engineering

4. Catalog course description (not to exceed 50 words):
Models and methods based on probability and statistics for industrial engineering applications; random variables, expectation, distribution fitting, reliability of systems, central limit theorem and interval estimates in the context of production and service systems.

5. Prerequisite(s):
ISEN 230 and STAT 211

6. Is this a variable credit course?  □ Yes  □ No  If yes, from ______ to ______

7. Is this a repeatable course?  □ Yes  □ No  If yes, this course may be taken ______ times.

Will this course be repeated within the same semester?  □ Yes  □ No

8. Will this course be submitted to the Core Curriculum Council?  □ Yes  □ No

9. How will this course be graded?  □ Grade  □ S/U  □ P/F (CLAIR)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
      ISEN  310  Uncertainty Modeling for IEs

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
</thead>
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<td>1435010006</td>
<td>1622</td>
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<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

Level 3

Approval recommended by:

Cesar O. Malave
9-28-15

Department Head or Program Chair (Type Name & Sign)  Date
Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date
(if cross-listed course)
Dean of College  Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams  at 945-8501 or sandra-williams@tamu.edu.
Curricular Services - 07/14
Course title and number    ISEN 310 Uncertainty Modeling for Industrial Engineering
Term (e.g., Fall 200X)    Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Models and methods based on probability and statistics for industrial engineering applications; random variables, expectation, distribution fitting, reliability of systems, central limit theorem and interval estimates in the context of production and service systems.

Prerequisites: ISEN 230 and STAT 211

Learning Outcomes
Students will be able to
• characterize uncertainty to perform decision-making under uncertainty, and
• apply probability and statistics based methods for analysis and prediction in engineering systems.

Instructor Information

Name    TBD
Telephone number    TBD
Email address    TBD@tamu.edu
Office hours    TBD
Office location    TBD

Textbook and/or Resource Material
None. Course notes and handouts will be provided.

Grading Policies
Homework, Assignments and Quizzes: 25%

Exam 1: 25% (around week 5 of the semester)

Exam 2: 25% (around week 10 of the semester)

Final Exam: 25% during the week of finals

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

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<th>Topic</th>
<th>Required Reading</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Basic Probability Review; probability of events; 3-card example</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Conditional probability, law of total probability; Monte Hall Problem</td>
<td></td>
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<tr>
<td>3</td>
<td>Discrete random variables; Special cases: binomial, geometric, Poisson</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Continuous random variables; Special cases: exponential, uniform, gamma, normal; empirical distributions</td>
<td></td>
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<tr>
<td>5</td>
<td>Expectation, mean, variance and expected value of functions of random variables; Exam 1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Case Study 1: newsvendor problem and applications; Case Study 2: Setting safety stock in inventory models</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Distribution fitting, notion of IID, autocorrelation plot, histogram, probability plot</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Point estimates of mean and variance, Goodness of fit: Chi-squared test</td>
<td></td>
</tr>
</tbody>
</table>
9. Kölmogorov-Smirnov test; collect inter-arrival and service time data, and fit; analysis of failure data

10. Reliability modeling: hazard rate functions, series and parallel systems; Exam 2

11. Failure models, reliability testing, warranties; setting warranty period and policies

12. Central Limit Theorem; collection of IID and independent random variables

13. Application in PERT – Project Evaluation and Review Technique

14. Interval Estimates: confidence intervals for means and variances: one and two variables; system comparison

Other Pertinent Course Information

The course will use computational tools to solve larger problems. Handouts for MATLAB will be provided. Students are expected to apply prior knowledge of MATLAB in this course.

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (MS, M.D., Ph.D., D.V.M.)

2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course:
ISEN 320 Operations Research I

4. Catalog course description (not to exceed 50 words):
Development and application of fundamental deterministic optimization models and solution methods; focus on quantitative modeling and formulation of linear, integer, and network flow problems; use of computer optimization software to model and solve real-life problems.

5. Prerequisite(s): MATH 504
Cross-listed with:  
Stacked with:

6. Is this a variable credit course?  ☑ Yes  ☐ No
If yes, from _____ to _____

7. Is this a repeatable course?  ☑ Yes  ☐ No
If yes, this course may be taken _____ times.

Will this course be repeated within the same semester?  ☐ Yes  ☑ No

8. Will this course be submitted to the Core Curriculum Council?  ☐ Yes  ☐ No

9. How will this course be graded:  ☑ Grade  ☐ S/U  ☐ P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    ISEN 320  Operations Research I

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<thead>
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Level 3

Approval recommended by:

Cesar O. Malave  9/28/15

Department Head or Program Chair (Type Name & Sign)  Date  Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date  Chair, College  Date

(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services

Date  Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tscc.tamu.edu

Curricular Services – 07/14

RECEIVED  OCT 13 2015
Course title and number  ISEN 320 Operations Research I
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites

Development and application of fundamental deterministic optimization models and solution methods; focus on quantitative modeling and formulation of linear, integer, and network flow problems; use of computer optimization software to model and solve real-life problems.

Prerequisites: MATH 304 or equivalent

Learning Outcomes

The student should

- be able to formulate and solve real-world problems and determine an appropriate modeling framework,
- be able to solve the models for their optimal solutions,
- be able to interpret and apply the solutions obtained in engineering decision making, and
- have an appreciation for a wide variety of applications of the methods developed.

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material

Introduction to Mathematical Programming, 4th Edition by W. L. Winston and M. Venkataraman;

Other Textbook Options:


Grading Policies

Homework Assignments and Quizzes: 25%

Exam 1: 25% (around week 5 of the semester)

Exam 2: 25% (around week 10 of the semester)

Final Exam: 25% during the week of finals

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

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</tr>
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<tbody>
<tr>
<td>1</td>
<td>Introduction, simple linear programming (LP) formulations, graphical solution of LP</td>
<td>Chapters 1, 3.1-3.3</td>
</tr>
<tr>
<td>2</td>
<td>Basic LP Formulations</td>
<td>Chapter 3.4-3.12</td>
</tr>
<tr>
<td>3</td>
<td>Advanced LP Formulations</td>
<td>Chapter 3.4-3.12</td>
</tr>
<tr>
<td>4</td>
<td>Basic integer programming (IP) formulations</td>
<td>Chapter 9.1</td>
</tr>
<tr>
<td>5</td>
<td>Advanced IP formulations</td>
<td>Chapter 9.2</td>
</tr>
<tr>
<td></td>
<td>Topic</td>
<td>Chapter(s)</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Exam 1, Entry level software to solve LPs and IPs</td>
<td>Chapter 4.17 and handouts</td>
</tr>
<tr>
<td>7</td>
<td>Advanced level software to solve LPs and IPs</td>
<td>handouts</td>
</tr>
<tr>
<td>8</td>
<td>Advanced level software to solve LPs and IPs continued; Graphical sensitivity analysis of LP</td>
<td>Chapter 5.1</td>
</tr>
<tr>
<td>9</td>
<td>Managerial applications of sensitivity and shadow prices</td>
<td>Chapter 5.2-5.3</td>
</tr>
<tr>
<td>10</td>
<td>Managerial applications of sensitivity and shadow prices continued, Exam 2</td>
<td>Chapter 5.2-5.3</td>
</tr>
<tr>
<td>11</td>
<td>Basic formulations of network flow problems</td>
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<td>Advanced formulations of network flow problems</td>
<td>Chapter 8.1-8.3, 8.5</td>
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<td>13</td>
<td>Simplex method</td>
<td>Chapter 4.1-4.8</td>
</tr>
<tr>
<td>14</td>
<td>Simplex method continued</td>
<td>Chapter 4.11-4.14</td>
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</table>

Final exam during finals week

**Other Pertinent Course Information**

The course will use computational tools to solve larger problems. Handouts for MATLAB will be provided. Students are expected to apply prior knowledge of MATLAB in this course.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Academic Integrity**

*For additional information please visit: [http://aggienonor.tamu.edu](http://aggienonor.tamu.edu)*

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Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the Texas A&M University
community from the requirements or the processes of the Honor System. For additional information please visit: http://student-rules.tamu.edu/; http://student-rules.tamu.edu/aggiecode; and http://student-rules.tamu.edu/rule20. The complete information of university regulations regarding the handling of academic misconducts (including the appeal process) can be found at http://aggiehonor.tamu.edu/.

I, [insert instructor name], as the rest of the Industrial & Systems Engineering Faculty, uphold the Aggie Honor Code as an axiom of our academic excellence. We consider its sincere observance to be essential for membership in our department and Texas A&M. We extend you the trust conferred to those who faithfully adhere to our honor code. Abuse of this trust is intolerable, thus I will report and assign an extreme penalty to those who do not stand with us in preserving the integrity symbolized by the Aggie Honor Code, "An Aggie does not lie, cheat, or steal or tolerate those who do."

In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*. 
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   ☑ Undergraduate ☐ Graduate ☐ First Professional (D.O., M.D., J.D., Ph.D., D.P.M.)

2. Request submitted by (Department or Program Name):
   Department of Industrial and Systems Engineering
   ISEN 330 Human Systems Interaction

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Principles of human factors and ergonomics; emphasis on design to support human capabilities, limitations, and
   interaction tendencies in sociotechnical work systems; topics include human information processing, physiological and
   biomechanical functioning, and implications for design of the workplace and jobs; case studies in manufacturing,
   medicine, aerospace, ground transportation, and computer interaction.

5. Prerequisite(s):
   MMET 181, Junior classification

6. Is this a variable credit course? ☐ Yes ☑ No
   If yes, from _______ to _______

7. Is this a repeatable course? ☐ Yes ☑ No
   If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester? ☐ Yes ☑ No

8. Will this course be submitted to the Core Curriculum Council?
   ☐ Yes ☑ No

9. How will this course be graded:
   ☑ Grade ☐ S/U ☐ P/F (CLAIR)

10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
       B.S. in Industrial Engineering
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)
    ISEN 330 Human Systems Interaction

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code |
    |-------|-----|-------|-----|------------------|-------------|------------|-----------|
    | 3.00  |     | 3.00  | 1435010006 | 1622            | 16          | 17         | 0 0 3 6 3 2 |

Approval recommended by:

Cesar O. Malave 9.28.15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14

RECEIVED OCT 13 2015 CURRICULAR SERVICES
Course title and number     ISEN 330 Human Systems Interaction
Term (e.g., Fall 200X)      Fall 2016
Meeting times and location TBD

Course Description and Prerequisites

Principles of human factors and ergonomics; emphasis on design to support human capabilities, limitations, and interaction tendencies in sociotechnical work systems; topics include human information processing, physiological and biomechanical functioning, and implications for design of the workplace and jobs; case studies in manufacturing, medicine, aerospace, ground transportation, and computer interaction.

Prerequisites: MMET 181, Junior classification

Learning Outcomes

Students will be able to
- demonstrate an understanding of the unique factors effecting human performance in sociotechnical systems,
- apply human factors theory to the design or selection of system elements to support human performance and safety,
- apply mathematical theory to calculate the severity of hazards due to exposure to visual, auditory, vibratory, air quality, and other environmental stimuli and identify redesign solutions for mitigating the hazards,
- apply mathematical theory to determine ideal display, control, and physical layout characteristics for supporting an operator's cognitive and physical performance,
- demonstrate communication skills in a semester-long writing assignment, and
- demonstrate applied knowledge of course concepts in identifying human-systems interaction problems with an existing technology, and in proposing redesign solutions.

Instructor Information

Name     TBD
Telephone number TBD
Email address TBD@tamu.edu
Office hours  TBD
Office location TBD

Textbook and/or Resource Material


Instructor-prepared course packet

Grading Policies

Grade Determination: 22% Homework/quizzes, 20% Midterm exam, 25% Final exam, 33% Written Report

Grades will be calculated on the basis of total points earned. The points can be curved based on class average and may be lower than the following standard (out of a total of 100 percentage points). Since this is a writing intensive course, you must pass writing to pass the course; thus, if your written report grade is less than 60%, your course grade will be an F even if all other grades are 100%.

- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%
- F 59% and lower

Attendance and Make-up Policies

Homework and Quizzes:

There will be approximately one homework assignment released per lecture topic, designed to give you practice in applying principles and ideas learned in the course. Some but not all of the homeworks will be graded (the instructor will specify when they are graded). Ungraded homeworks will be provided to you so you can work through the problems in preparation for graded quizzes and exams.

Homework assignments and solutions will be posted on eCampus and announced in lecture and/or via email. Due dates for each assignment will be given when they are issued, but will generally be within 1 week. Completed assignments can be submitted in class, or electronically via eCampus (in Word or pdf format). Quizzes will be conducted during lecture, either via eCampus or on pacer. The total homework/quiz grade will be based on total points, not on the average of percentage grades for each entry.

Generally, assignments that are submitted after the due date/time will not receive any credit. You are expected to attend all class lectures except for university excused absences. With an excused absence, it is still the student's responsibility to find out the homework assignment and be ready for a quiz. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.
Exams:

There will be two exams, a midterm worth 20% of the overall course grade, and a final exam worth 25%. Format for each exam is TBD depending on available resources will likely use some combination of eCampus and written format. The exams will emphasize material discussed in lecture and practiced in the homework; material exclusively in the text will not be tested but may aid in providing background information. Each exam can include quantitative problems, short answer questions, and/or essays. Grades will be posted on the course eCampus website and students can review their graded exams during office hours.

Make-up for the exams will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Re-grading Policy:

Students have 1 week after grades are released for a homework, quiz, or exam to submit a re-grade request in writing. This request must not exceed 1 page (11 point font, single spacing), and must clearly indicate the relevant problem(s) and justification for why you think re-grading is warranted. Note that a requested re-grade may result in further point deductions if new errors are discovered.

### Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to systems engineering, sociotechnical systems, the human as a system component, and the fields of human factors and ergonomics</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Visual perception, designing to support visual information processing, and vision safety</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Auditory perception, designing to support auditory information processing, and audition safety</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cognitive factors: attention, memory, stress, and mental workload</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Human error</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Modeling information processing and motor skills</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Displays and controls</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Documentation and warnings, Midterm exam (in class)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Anthropometry and work station design</td>
<td></td>
</tr>
</tbody>
</table>
Other Pertinent Course Information

Writing Requirement

As this course is a designated ISEN "W" (writing) course, a semester-long assignment will involve analyzing and redesigning a technology that is problematic from a sociotechnical systems perspective. Human factors and ergonomics analyses will be used to identify problems with the technology, and human-centered design methods will be applied to a proposed redesign that mitigates the identified problems. The details of written report deliverables will be discussed early in the semester. The deliverables will be graded for both technical accuracy and clarity and combined will be worth 33% of the overall course grade.

Writing Portion

As a "W" course, ISEN 330 will include a semester-long writing component. This is designed to meld industrial engineering topics with writing through practical application of engineering concepts in homework assignments and through the synthesis of that technical work into writing assignments. Students will write introductions, executive summaries, and final reports. Students will also write individual assignments that will consist of memos, emails, and reports related to their coursework. Because this is a university approved W course, students must pass both the writing portion and the technical portion to pass the course. Failing either will result in a failing grade in the course.

Some writing assignments will be evaluated for both technical correctness and the writing quality. In those cases, students will submit their work to both the writing instructor (always via eCampus) and the TAs as they specify (usually printed copies). Writing instruction will focus primarily on improving the effectiveness of each student's communication with regard to audience, purpose, and subject. Grammar, spelling, and punctuation will be addressed, but they will not be the primary focus of instruction unless they impact communication or credibility.

Writing assignments will be evaluated and graded separately. It is entirely possible for the writing grade to differ from the technical grade; the two are not related and differences between them are expected. As the course progresses and students begin to work in groups, they will still have individual writing requirements.

Writing instruction will take place during the lecture or lab period and will start immediately when the class period begins. Be on time. You are responsible for any instruction you miss because of tardiness and if you miss a graded event, you will not be allowed to make it up—without a university excused absence. If you arrive late and an in-class exercise has already started, the writing instructor will decide if you can participate or not.
The work associated with the W component consists of at least two case studies, supporting writing assignments, writing-based homework assignments, and a few quizzes or in-class exercises. Writing-specific assignments will be distributed at the start of each lab period and may be separate from other lab assignments. Writing assignments are due at the start of the next lecture/lab period unless a different due date is announced. Assignments submitted after the due date will receive a zero unless the student has a university excused absence.

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>% of Writing Grade</th>
<th>Approximate Due Date</th>
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</thead>
<tbody>
<tr>
<td>Draft 1</td>
<td>15%</td>
<td>Week 3</td>
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<tr>
<td>Draft 2</td>
<td>15%</td>
<td>Week 6</td>
</tr>
<tr>
<td>Revision or Draft 3</td>
<td>15%</td>
<td>Week 9</td>
</tr>
<tr>
<td>Final</td>
<td>40%</td>
<td>Week 13</td>
</tr>
<tr>
<td>In class writing/ quizzes</td>
<td>15%</td>
<td></td>
</tr>
</tbody>
</table>

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  ☑ Undergraduate  ❌ Graduate  ❌ First Professional (DDS, HLD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course: ISEN 340 Operations Research II

4. Catalog course description (not to exceed 50 words):
Probabilistic methods for industrial and service systems; stochastic processes used in industrial engineering, including Poisson processes and discrete and continuous-time Markov chains; applications to production operations, inventory control, revenue management, quality control, reliability, digital simulation and finance.

5. Prerequisite(s): MATH 304 and ISEN 310

Cross-listed with:  Stacked with:

| Cross-listed courses require the signature of both department heads. |

6. Is this a variable credit course?  ☑ Yes  ❌ No  If yes, from _____ to _____

7. Is this a repeatable course?  ☑ Yes  ❌ No  If yes, this course may be taken _____ times.

8. Will this course be repeated within the same semester?  ☑ No

9. Will this course be submitted to the Core Curriculum Council?  ☑ Yes  ❌ No

10. How will this course be graded:  ☑ Grade  ❌ S/U  ☑ P/F (CLAS)

10. This course will be:

   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

      B.S. in Industrial Engineering

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.

☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-exports-export-control-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
ISEN  340  Operations Research II

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
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<td>1437010006</td>
<td>1622</td>
<td>16 - 17</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

Level 3

Approval recommended by: Cesar O. Malave

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date (if cross-listed course)

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date  Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-0201 or sandra.williams@tamu.edu

Curricular Services – 07/14

RECEIVED
SEP 30 2015
EASA

CURRICULAR SERVICES
OCT 13 2015
Course title and number  ISEN 340 Operations Research II
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Probabilistic methods for industrial and service systems; stochastic processes used in industrial engineering, including Poisson processes and discrete and continuous-time Markov chains; applications to production operations, inventory control, revenue management, quality control, reliability, digital simulation and finance.
Prerequisites: MATH 304 and ISEN 310

Learning Outcomes
At the end of this course, the student should

- be able to model and understand uncertainty in real world engineering problems,
- be able to formulate and solve probabilistic models that capture the essential elements of an engineering problem,
- be able to interpret the model solution to assist in engineering decision making, and
- have an appreciation for a wide variety of applications of the methods developed.

Instructor Information
Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
Grading Policies

Quizzes: 25% (approximately 5 spread throughout the semester, announced two days ahead)

Exam 1: 25% (around week 5 of the semester)

Exam 2: 25% (around week 10 of the semester)

Final Exam: 25% during the week of finals

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. Make-up for the exams and quizzes will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Course Topics, Calendar of Activities, Major Assignment Dates

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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Review of probability: probability spaces, events, probability laws, law of total probability, Bayes' theorem; random variables, distribution functions, expectation, including mean and variance</td>
<td>Chapter 1, 2</td>
</tr>
<tr>
<td>2</td>
<td>Sequences of random variables, joint distributions, conditional probability and conditional expectation, random processes</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>3</td>
<td>Discrete time Markov chains, the Markov property, one-step and n-transition probabilities using MATLAB</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>4</td>
<td>Discrete time Markov chains continued, classification of states, first step analysis, applications and case studies</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>5</td>
<td>Discrete time Markov chains continued, long run behavior, review and first exam</td>
<td>Chapter 4</td>
</tr>
</tbody>
</table>
6 Poisson process, definitions, law of rare events, interarrival times, arrival times Chapter 5

7 Poisson process continued, conditional arrival times, nonstationary Poisson process, compound Poisson processes Chapter 5

8 Continuous time Markov chains, definitions, time dependent transition probabilities, transition rates Chapter 6

9 Continuous time Markov chains continued, Kolmogorov differential equations and solutions using MATLAB, birth-death processes Chapter 6

10 Continuous time Markov chains continued, long run behavior, applications and case studies, review and second exam Chapter 6

11 Renewal theory and applications, counting process, elementary renewal theorem, key renewal theorem Chapter 7

12 Renewal theory and applications continued, renewal reward processes, alternating renewal processes, applications Chapter 7

13 Queueing theory and applications, exponential models, transient and limiting analysis using MATLAB Chapter 8

14 Queueing theory and applications, M/G/1 and variations, applications and case studies Chapter 8

Final exam during the week of finals

Other Pertinent Course Information

The course will use computational tools to solve larger problems. Handouts for MATLAB will be provided. Students are expected to apply prior knowledge of MATLAB in this course.

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Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: [✓ Undergraduate] [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Department of Industrial and Systems Engineering
   ISEN 350 Quality Engineering

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Strategic approach to implementing quality, process and business improvement methods using data analysis tools; total quality management and six sigma approaches to define, measure, analyze, improve and control processes; principles of lean engineering; control charts; process capability analysis; basic metrology, applied mathematics, lean principles and process capability.

5. Prerequisite(s):
   ISEN 310 and ISEN 230

6. Is this a variable credit course? [ ] Yes [✓ No]
   If yes, from _____ to _____

7. Is this a repeatable course? [ ] Yes [✓ No]
   If yes, this course may be taken _____ times.

8. Will this course be repeated within the same semester? [ ] Yes [✓ No]

9. Will this course be submitted to the Core Curriculum Council? [ ] Yes [✓ No]

10. How will this course be graded: [✓] Grade [ ] S/U [ ] VIP (EXEM)

11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

12. [✓] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ver.tamu.edu/resource/export-control/export-control-basics-for-distance-education).

13. Prefix: ISEN 350
    Course #: Quality Engineering

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCII</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>1622</td>
<td>16</td>
<td>- 17</td>
<td>0 0 3 5 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by:
Cesar O. Malave

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee
Denn of College

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-4201 or sandra.williams@tamu.edu.
Curricular Services – 07/14

Received
OCT 13 2015
CURRICULAR SERVICES
Course title and number: ISEN 350 Quality Engineering
Term (e.g., Fall 200X): Fall 2016
Meeting times and location: TBD

Course Description and Prerequisites

Strategic approach to implementing quality, process and business improvement methods using data analysis tools; total quality management and six sigma approaches to define, measure, analyze, improve and control processes; principles of lean engineering; control charts; process capability analysis; basic metrology, applied statistics, lean principles and process capability.

Prerequisite: ISEN 310 and ISEN 230.

Learning Outcomes

At the end of this course, the student will be able to

- explain the importance of improving product quality through variance reduction, and six-sigma programs,
- illustrate the importance of reducing waste to improve product cycle time,
- apply statistical concepts, data analysis methods to help achieve high quality processes, and
- use lean-six sigma methods and tools to solve quality engineering problems.

Instructor Information

Name: TBD
Telephone number: TBD
Email address: TBD@tamu.edu
Office hours: TBD
Office location: TBD

Textbook and/or Resource Material

Software used in this course: Microsoft EXCEL and MINITAB

Grading Policies

Test 1 23% (100 points)
Test 2 23% (100 points)
Final Examination (Comprehensive) 25% (100 points)
Lab 15%
Homework 6%
Class Attendance, Participation & Quizzes 8%

There will be 10 laboratory exercises and approximately 10 homework assignments. The total points (TP) which can be accumulated on labs, class quizzes and homework will be used to normalize total points earned (TPE) as follows:

Lab Grade = (TPE/TP)100

Class Participation & Quizzes = (TPE/TP)100

Homework Grade = (TPE/TP)100

Course Grade = 0.23(T1 + T2) + 0.25(FE) + 0.15(Lab) + 0.08(Class Participation & Quizzes) + 0.06 Hwk

Course grade will be assigned as follows:

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 &gt; AG &gt;= 90</td>
<td>A</td>
</tr>
<tr>
<td>90 &gt; AG &gt;= 80</td>
<td>B</td>
</tr>
<tr>
<td>80 &gt; AG &gt;= 70</td>
<td>C</td>
</tr>
<tr>
<td>70 &gt; AG &gt;= 60</td>
<td>D</td>
</tr>
<tr>
<td>60 &gt; AG &gt;= 0</td>
<td>F</td>
</tr>
</tbody>
</table>

Attendance and Make-up Policies

No make-up labs, tests or in-class quizzes except for university allowed excuses. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Please be punctual and display an attitude of professionalism and become actively engaged in class activities and discussions. Put away your cell phone and do not use computers during the lecture. Disruptive or unprofessional behavior will not be tolerated and the student will be asked to leave the classroom. There will be a short quiz most lecture days.
Homework

There will be homework problems assigned from the text or handed-out most lab periods. They may be done with others or in a cooperative setting, but each student must work through the problem themselves regardless of how much help they have received. The assignments will be collected and at least one problem graded. All problems assigned for the week are due in next week’s lab.

Lab Report

Class, lab attendance and participation will be noted and will influence your grade in borderline cases. Lab attendance and participation in labs is mandatory.

Students will be allowed one week after each lab exercise is returned to the student to discuss assigned grades. After one week, there will be no discussion.

It is likely that due to the lack of proper computer resources in the lab, teams of 2-3 may be necessary to work together on each lab exercise. Teams will be assigned at the beginning of each Lab by the lab instructor. If teams are formed, it is expected that all members of the team will equally share in the problem solving exercise. No copying between teams is allowed, each team must do its own work. Each team will only turn in one report. Lab report is due in a week. Late reports will be docked by 25% per calendar day it is late except for university excused absences. If plagiarism is detected, BOTH teams will be given a zero on that lab exercise with no debate or recourse. Those who miss a lab will NOT be allowed to be on any team.

Re-grading Policy

If you would like to have your homework/exam/report re-graded, you have to do so within one week from the time grades are assigned.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Defining Quality and Quality Improvement, History of Quality;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No labs in week 1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Statistical Methods of Quality;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lab 1: How to use MINITAB?</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Statistical Methods of Quality;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lab 2: Penny experiment for discrete distributions</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Management Aspects of Quality, Leaders in the Quality Movement;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lab 3: Test Central Limit Theorem experimentally</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Zero defects, Value Engineering, TQM;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lab 4: pencil-and-board experiment</td>
<td></td>
</tr>
</tbody>
</table>
Origins of Six Sigma, Evolution of Six Sigma;
Lab 5: Keyboard experiment comparing two means

Six Sigma Belts, Variance Reduction;
Exam 1; no lab meeting

Six Sigma Deployment and Impact, DMAIC;
Lab 6: Probability review

Waste Reduction, Lean Engineering Principles;
Lab 7: Run length experiment in MINITAB

Lean-Six Sigma, Statistical Concepts used in Quality Engineering;
Lab 8: Paper helicopter production experiment – Part 1

Seven Process Improvement Tools;
Lab 9: Paper helicopter production experiment – Part 2

Control Chart Concepts; Variable Charts: X-Bar;
Lab 10: Bead inspection experiment

S and R charts; Process Capability Analysis;
Exam 2; no lab meeting

Attribute Charts: p, np, u, c charts; no lab meeting

Final exam during the finals week

Other Pertinent Course Information

N/A

Americans with Disabilities Act (ADA)

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Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

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In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*.
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: □ Undergraduate  □ Graduate  □ First Professional (JD, MD, PhD, DVM, DO)
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
   ISEN 355 System Simulation

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Systems simulation structure, logic and methodologies; development of simulation models; data handling methods;
   analysis of simulation data; verification and validation; system simulation languages, models and analysis;
   applications to industrial situations.

5. Prerequisite(s): ISEN 250 and ISEN 310
   Cross-listed with:  Stacked with:

6. Is this a variable credit course? □ Yes  □ No  If yes, from _______ to _______
7. Is this a repeatable course? □ Yes  □ No  If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester? □ Yes  □ No
8. Will this course be submitted to the Core Curriculum Council? □ Yes  □ No
9. How will this course be graded? □ Grade  □ S/U  □ P/F (CLMD)
10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
       B.S. in Industrial Engineering
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resource/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    ISEN  355  System Simulation

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>HICL Code</th>
<th>Level</th>
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<tbody>
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<td>1622</td>
<td>16 -</td>
<td>17</td>
<td>0 0 3 6 3 2</td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:
Cesar O. Malave 9.28.15

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
(If cross-listed course)
Dean of College Date

Submitted to Coordinating Board by:
Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services -- 07/14
Course title and number     ISEN 355 System Simulation
Term (e.g., Fall 200X)     Fall 2016
Meeting times and location     TBD

Course Description and Prerequisites
Systems simulation structure, logic and methodologies; development of simulation models; data handling methods; analysis of simulation data; verification and validation; system simulation languages, models and analysis; applications to industrial situations.

Prerequisites: ISEN 230 and ISEN 310.

Learning Outcomes
Students are able to

- develop models using commercially available discrete event (process-oriented) simulation software,
- interpret simulation output using valid statistical methods,
- collect and analyze input data using valid statistical methods, and
- apply simulation to model industrial and system engineering problems.

Instructor Information

Name     TBD
Telephone number     TBD
Email address     TBD@tamu.edu
Office hours     TBD
Office location     TBD

Textbook and/or Resource Material

Reference:

Grading Policies

Lab Assignments 12%, Quizzes 8%, Two In-class exams 20% (10% each), Two lab exams 40% (20% each), and final exam 20%. Homework will be assigned but not collected or graded. Quizzes will be given in class based on the topics covered in class and homework assignment.

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures and labs except for university excused absences. With an excused absence, it is still the student's responsibility to find out the homework assignment and be ready for a quiz. Make-up for the exams and quizzes will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07. Because we often begin class or labs with computer work, it is also important that you arrive on time. Students arriving to lab after the initial lab lecture has started will receive a two point deduction for that day's lab assignment.

Quizzes, Homework, and Lab: At any time, without warning, a short quiz based on the homework or in-class examples might be given. Quizzes are 5-10 points and labs are 10 points, although some of the more complex lab assignments may be may be split into an in-class portion and a take-home portion. Simulation code developed as part of the lab assignment should be submitted online using http://ecampus.tamu.edu. Take-home lab assignments will always be due by 5:00 PM on the Friday following the lab, and should be submitted online using http://ecampus.tamu.edu. Late assignments are not accepted except for university excused absences. Quizzes will be given at the start of class so it is important not to be late since late arrivals will receive zero for that day's quiz.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to the course, introduction to simulation, and relationship with probability and statistics. Lab 1: Introduction to Simio.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Relationship with queueing system. Simio concepts in class and lab. Lab 2: Branching and looping logic using Simio.</td>
<td></td>
</tr>
</tbody>
</table>
Output analysis using statistical methods, confidence intervals. Simio concepts in class and lab.
Lab 4: Interpreting results from Simio output.

Terminating systems and non-terminating systems. Simio concepts in class and lab. First Test (in class).
Lab 5: Experiments using Simio and generating confidence intervals on estimates.

System comparison. Simio concepts in class and lab.
Lab 6: Comparing systems using Simio; interpreting outputs

Non-stationary arrival process.
Resource failures. Modeling techniques. Second Test (in lab)

Input data analysis. Data handling methods, statistical goodness of fit tests.
Lab 7: Introduction to Processes.

Distribution fitting and parameter estimation using statistical methods.
Lab 8: Use of Tally statistics

Verification and Validation.
Lab 9: Use of State and Output statistics.

Supply chain and logistics modeling and analysis using simulation.
Lab 10: modeling and analysis of a supply chain problem using Simio

Manufacturing and service system modeling and analysis using simulation.
Lab 11: modeling and analysis of a manufacturing system using Simio.

Agent Based Simulation, Monte Carlo Simulation; Third Test (in class)
Lab 12: Advanced uses of Processes in Simio.

Simio examples. Fourth Test (in lab)

Final exam during week of finals
Other Pertinent Course Information

Software: We will be using Simio as the simulation software, and Arena's Input Analyzer and @RISK Excel add-in for input data analysis. The software is available on the departmental cloud server (https://isenstorefront.ie.tamu.edu) and also in the computers in the lab and classrooms. You will need to have a VPN connection in order to access the departmental cloud server. More details on installing the VPN can be found at http://hdc.tamu.edu/Connecting/VPN/index.php. Information on obtaining an optional personal copy of Simio will be made available on eCampus.

Americans with Disabilities Act (ADA)

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Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (MED, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
   iSEN 370 Production Systems Engineering
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Principles, models, and techniques for planning and analysis of production and distribution systems; application of linear, integer, and nonlinear optimization models and solution methods for aggregate planning, supply chain planning, push (MRP) and pull (JIT) material flow management, inventory control under deterministic and stochastic demands, operations scheduling, and production scheduling.

5. Prerequisite(s):
   iSEN 230 and iSEN 320

Cross-listed with: [ ]
Stacked with: [ ]

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? [ ] Yes [✓] No
   If yes, from ________ to ________

7. Is this a repeatable course? [ ] Yes [✓] No
   If yes, this course may be taken ________ times.

   Will this course be repeated within the same semester? [ ] Yes [✓] No

8. Will this course be submitted to the Core Curriculum Council? [ ] Yes [✓] No
   [ ] P/T (CLAS)

9. How will this course be graded? [✓] Grade [ ] S/U [ ] P/T (CLAS)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)
      B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. [✓] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education)

13. Prefix | Course # | Title (excluding punctuation)
   --- | --- | ---
   iSEN | 370 | Production Systems Engineering

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | PICE Code | Level
   --- | --- | --- | --- | --- | --- | --- | --- | ---
   3.00 | 3.00 | 3.00 | 1435010006 | 1622 | 16 | - | 17 | 0 0 3 6 3 2

   Approval recommended by: [Signature]
   Cesar O. Malave 9.28.15

   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee

   Department Head or Program Chair (Type Name & Sign) Date
   Dean of College

   Submitted to Coordinating Board by: [Signature]
   Chair, GC or UCC

   Date

   Associate Director, Curricular Services

   Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 945-8201 or sandra-williams@tamu.edu
Curricular Services 07/14

RECEIVED
SEP 30 2015
EASA

CURRICULAR SERVICES
OCT 13 2015
Course title and number    ISEN 370 Production Systems Engineering  
Term (e.g., Fall 200X)    Fall 2016  
Meeting times and location    TBD  

Course Description and Prerequisites

Principles, models, and techniques for planning and analysis of production and distribution systems; application of linear, integer, and nonlinear optimization models and solution methods for aggregate planning, supply chain planning, push (MRP) and pull (JIT) material flow management, inventory control under deterministic and stochastic demands, operations scheduling, and production scheduling. 

Prerequisites: ISEN 230 and ISEN 320  

Learning Outcomes

At the end of the course, students should be able to

- describe different types and levels of decision making in a production system
- model, formulate, solve, analyze problems arising in aggregate production and supply chain planning
- model and analyze fundamental inventory control systems with certain/uncertain demand
- describe and analyze push (MRP) and pull production systems (JIT)
- model and solve basic operations scheduling problems
- model and solve basic project scheduling problems  

Instructor Information

Name    TBD  
Telephone number    TBD  
Email address    TBD@tamu.edu  
Office hours    TBD
Textbook and/or Resource Material


Grading Policies

Homework and Quizzes: 20%
Exam 1: 25% (around week 5 of the semester)
Exam 2: 25% (around week 10 of the semester)
Final Exam: 30% during the week of finals

Grades assigned are A for 90%—100%, B for 80%—89.9%, C for 70%—79.9%, D for 60%—69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. If a test is missed, you must have a written excuse that meets university requirements for an excused absence. With an excused absence, it is still the student's responsibility to find out the homework assignment and be ready for a quiz. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Course Topics, Calendar of Activities, Major Assignment Dates

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<thead>
<tr>
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<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to decision making problems in production systems</td>
<td>Instructor Notes</td>
</tr>
<tr>
<td>2</td>
<td>Aggregate planning using linear and integer programming</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>3</td>
<td>Single/multi-product models with production/inventory/backorder sales workforce/overtime/setup/etc variables</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>4</td>
<td>Supply chain planning using linear and integer programming</td>
<td>Chapter 6 and instructor notes</td>
</tr>
<tr>
<td>5</td>
<td>Inventory control subject to known demand: EOQ and its extensions; Exam 1</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>Chapter</td>
<td>Topic</td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>Discount models; Resource-constrained models</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>7</td>
<td>Inventory control subject to uncertain demand: newsvendor problem; (Q,R) policy</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>8</td>
<td>Service Levels, (s,S) policy; MRP and JIT</td>
<td>Chapter 5, 8</td>
</tr>
<tr>
<td>9</td>
<td>Explosion calculus and simple lot-sizing methods; Fundamentals of JIT and mechanics of Kanban</td>
<td>Chapter 8</td>
</tr>
<tr>
<td>10</td>
<td>Exam 2; Operations Scheduling</td>
<td>Chapter 9</td>
</tr>
<tr>
<td>11</td>
<td>Single machine sequencing problems</td>
<td>Chapter 9</td>
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<tr>
<td>12</td>
<td>Multi-machine sequencing problems</td>
<td>Chapter 9</td>
</tr>
<tr>
<td>13</td>
<td>Project Scheduling: CPM</td>
<td>Chapter 10</td>
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<tr>
<td>14</td>
<td>PERT</td>
<td>Chapter 10</td>
</tr>
</tbody>
</table>

Final exam during the week of finals

**Other Pertinent Course Information**

N/A

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (JD, MD, PA, PharmD, DPA)
2. Request submitted by (Department or Program Name):
   Department of Industrial and Systems Engineering
   ISEN 405 Facilities Design and Material Handling
3. Catalog course description (not to exceed 50 words):
   Principles of facilities location, layout, and material handling systems and to practice designing facilities; modeling, design, and analysis techniques; methodologies in facilities location, layout, and material handling; integration of ergonomics analysis techniques and their implications on design, layout, safety and quality.

5. Prerequisite(s):
   - ISEN 210 and ISEN 320
   Cross-listed with:
   Stacked with:

6. Is this a variable credit course?
   - Yes
   - No
   If yes, from ________ to ________

7. Is this a repeatable course?
   - Yes
   - No
   If yes, this course may be taken ________ times.

8. Will this course be repeated within the same semester?
   - Yes
   - No

9. Will this course be submitted to the Core Curriculum Council?
   - Yes
   - No

10. How will this course be graded?
   - Grade
   - S/U
   - P/F (CL) Mode

11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)
   b. elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

12. B.S. in Industrial Engineering

13. Prefix Course # Title (excluding punctuation)
   __________ 405  Facilities Des & Mt Handling

   Lect. Lab Other SCH CIP Code Admin. Unit Acad. Year FICE Code
   3.00 3.00 1435010006 1622 16 17 0 0 3 6 3 2

   Approval recommended by:
   Cesar O. Malave
   9-18-15

   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee Date
   Department Head or Program Chair (Type Name & Sign) Date
   Dean of College Date
   Department Head or Program Chair (Type Name & Sign) Date
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   Date

   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 07/14

RECEIVED
SEP 5 0 2015
EASA

CURRICULAR SERVICES
OCT 1 3 2015
Course title and number | ISEN 405 Facilities Design and Material Handling
---|---
Term (e.g., Fall 200X) | Fall 2016
Meeting times and location | TBD

Course Description and Prerequisites

Principles of facilities location, layout, and material handling systems and to practice designing facilities; modeling, design, and analysis techniques; methodologies in facilities location, layout, and material handling; integration of ergonomics analysis techniques and their implications on design, layout, safety and quality.

Prerequisites: ISEN 210 and ISEN 320

Learning Outcomes

Students should be able to

- apply algorithms and analytical procedures for facilities layout planning,
- apply fundamental principles of material flow and handling,
- design layouts incorporating product, process, and personnel requirements; and
- improve writing, presentation, teamwork and general communication skills

Instructor Information

Name | TBD
Telephone number | TBD
Email address | TBD@tamu.edu
Office hours | TBD
Office location | TBD

Textbook and/or Resource Material


Supplemental Material: Taxonomy of material handling equipment for use in both production facilities and warehouses. http://mhwebportal.org/taxonomy
Grading Policies

<table>
<thead>
<tr>
<th>Grading Policy</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework/Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>A: ≥ 90%</td>
</tr>
<tr>
<td>Exams</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>B: 80% - 89%</td>
</tr>
<tr>
<td>Projects</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>C: 70% - 79%</td>
</tr>
<tr>
<td>Communication/Participation</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td>D: 60% - 69%</td>
</tr>
<tr>
<td></td>
<td>F: ≤ 60%</td>
</tr>
</tbody>
</table>

Communication Emphasis: Clear and effective communication will be stressed throughout the semester, including in-class (participation), on projects (team reports and presentations) and on all written assignments (homework, quizzes, exams). Guidelines and expectations on communication will be provided to the students at the beginning of the semester.

Exams will be given throughout the semester. Each exam will be written during one class period and will cover the topics/material of the course covered to the date the exam is written.

Projects will be worked throughout the semester, requiring the integration and adaption of course material to various layout, handling and location problems. Projects will be collaborative and team-based. Project grades will be assessed based on a comprehensive portfolio that indicates the team’s decision-making and progress. A self/peer review will also be submitted by each team member for each project worked. A project rubric will be posted by the instructor prior to each project.

Homework and short quizzes will be assigned throughout the semester to reinforce course content covered or to introduce additional/complementary course content.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences.

All written exams are graded and recorded and must be written on the day indicated in this syllabus with the only exceptions being (1) revision of the exam date by the instructor, (2) a student’s absence for a University Excused reason (University excused absences are determined based on Rule 07 of the Student Rules found at http://student-rules.tamu.edu/rule07), or (3) prior approval by the instructor. In the case of (3), you are encouraged to notify the instructor as soon as any conflict is realized.

Project due dates will be assigned in class and all project portfolios must be submitted on-time.

No late homework will be accepted under any circumstances with the exception of University approved absences. No missed quizzes will be made-up with the exception of University approved absences.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
</table>

Other Pertinent Course Information

The course will use computational tools to solve larger problems. Handouts for MATLAB will be provided. Students are expected to apply prior knowledge of MATLAB in this course.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu
Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

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I, <insert instructor name>, as the rest of the Industrial & Systems Engineering Faculty, uphold the Aggie Honor Code as an axiom of our academic excellence. We consider its sincere observance to be essential for membership in our department and Texas A&M. We extend you the trust conferred to those who faithfully adhere to our honor code. Abuse of this trust is intolerable, thus I will report and assign an extreme penalty to those who do not stand with us in preserving the integrity symbolized by the Aggie Honor Code, "An Aggie does not lie, cheat, or steal or tolerate those who do."

In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DOE, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   - Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course:
   - ISEN 408 Supply Chain and Logistics

4. Catalog course description (not to exceed 50 words):
   Principles, models and techniques for planning, analysis and design of supply chain systems; optimization principles, including linear and integer programming, applied to supply chain planning and operations; information technology, design models, databases, and strategic and tactical decision making.

5. Prerequisite(s):
   - ISEN 320, ISEN 340, and ISEN 370

6. Cross-listed with:
   - Stacked with:

   Cross-listed courses require the signature of both department heads:

   6. Is this a variable credit course?  [ ] Yes  [x] No
   7. Is this a repeatable course?  [ ] Yes  [x] No

   If yes, from ________ to ________

   If yes, this course may be taken ________ times.

   Will this course be repeated within the same semester?  [x] Yes  [ ] No

   Will this course be submitted to the Core Curriculum Council?  [ ] Yes  [x] No

   How will this course be graded?  [x] Grade  [ ] S/U  [ ] P/F (CLAS)

10. This course will be:
   
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.S. in Industrial Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. [x] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vnr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>ISEN 408</th>
<th>Supply Chain and Logistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect. 3.00</td>
<td>Lab 3.00</td>
</tr>
</tbody>
</table>

Approval recommended by:

Cesar O. Malave

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign)

Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.william@TexasAandM.edu

Curricular Services – 07/14

RECEIVED

OCT 13 2015

CURRICULAR SERVICES
Course title and number  ISEN 408 Supply Chain and Logistics
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Principles, models and techniques for planning, analysis and design of supply chain systems; optimization principles, including linear and integer programming, applied to supply chain planning and operations; information technology, design models, databases, and strategic and tactical decision making.
Prerequisites: ISEN 320, ISEN 340, and ISEN 370

Learning Outcomes
At the end of the course, the student should be able to
- model the physical and information flows within a supply chain,
- perform the decision analysis to support supply chain operations, and
- use models to quantify uncertainty or alternative outcomes.

Instructor Information
Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
Modeling the Supply Chain by Jeremy F. Shapiro
Grading Policies

Homework and Quizzes: 20%
Exam 1: 25% (around week 5 of the semester)
Exam 2: 25% (around week 10 of the semester)
Final Exam: 30% during the week of finals
Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. Make-up for the exams and quizzes will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply Chain Management, Integrated Planning and Models</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Integrated Planning and Models continued</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Information Technology</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Distribution Center Location Models</td>
<td></td>
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<tr>
<td>5</td>
<td>Supply Chain Network Optimization Models, Exam 1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Designing and Implementing Optimization Modeling Systems for Strategic and Tactical Planning</td>
<td></td>
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<tr>
<td>7</td>
<td>Unified Optimization Methodology for Operational Planning Problems</td>
<td></td>
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<tr>
<td>8</td>
<td>Supply Chain Decision Databases</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Strategic and Tactical Supply Chain Planning: State-of-the-Art Modeling Applications</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Strategic and Tactical Supply Chain Planning: Advanced Modeling</td>
<td></td>
</tr>
</tbody>
</table>
Applications, Exam 2

11
Operational Supply Chain Planning

12
Inventory Management

13
Inventory Management continued

14
Organizational Adaptation to
Optimization Modeling Systems

Other Pertinent Course Information

The course will use computational tools to solve larger problems. Handouts for MATLAB and AMPL will be provided. Students are expected to apply prior knowledge of MATLAB and AMPL in this course.

Americans with Disabilities Act (ADA)

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**Texas A&M University**

**Departmental Request for a New Course**

**Undergraduate • Graduate • Professional**

*Submit original form and attach a course syllabus.*

---

**Form Instructions**

1. **Course request type:**
   - ☑ Undergraduate
   - ☐ Graduate
   - ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. **Request submitted by (Department or Program Name):**
   - Department of Industrial and Systems Engineering

3. **Course prefix, number and complete title of course:**
   - ISEN 410 Advanced Engineering Economy

---

**Catalog course description (not to exceed 50 words):**

Principles of economic equivalence; borrowing, lending, and investing; establishing minimum attractive rate of return; replacement analysis; capital budgeting; uncertainty analysis; decision trees.

---

**5. Prerequisite(s):**

ISEN 210 or ISEN 302

---

**Cross-listed with:**

Stacked with:

---

**Cross-listed courses require the signature of both department heads.**

---

6. **Is this a variable credit course?**
   - ☑ No
   - ☐ Yes
   - If yes, from _____ to _____

7. **Is this a repeatable course?**
   - ☑ No
   - ☐ Yes
   - If yes, this course may be taken _____ times.

8. **Will this course be repeated within the same semester?**
   - ☑ No
   - ☐ Yes

9. **Will this course be submitted to the Core Curriculum Council?**
   - ☑ No
   - ☐ Yes

10. **How will this course be graded:**
   - ☑ Grade
   - ☐ S/U
   - ☐ P/F (X, MD)

---

**10. This course will be:**

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.S. in Industrial Engineering

---

**11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.**

**12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).**

---

**13. Prefixes**

<table>
<thead>
<tr>
<th>ISEN 410 Advanced Engineering Economy</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
</tr>
<tr>
<td>Lab</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>SCH</td>
</tr>
<tr>
<td>CIP and Fund Code</td>
</tr>
<tr>
<td>Admin. Unit</td>
</tr>
<tr>
<td>Acad. Year</td>
</tr>
<tr>
<td>FICE Code</td>
</tr>
</tbody>
</table>

**Approval recommended by:**

Cesar Q. Malave

---

**Submitted to Coordinating Board by:**

Chair, GC or UCC

---

**Questions regarding this form should be directed to Sandra Williams at 345-8201 or sandra-williams@tamu.edu.**

Curricular Services – 07/14
Course title and number  ISEN 410 Advanced Engineering Economy
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Principles of economic equivalence; borrowing, lending, and investing; establishing minimum attractive rate of return; replacement analysis; capital budgeting; uncertainty analysis; decision trees.
Prerequisites: ISEN 210 or ISEN 302

Learning Outcomes
At the end of the course, the student should be able to
- evaluate engineering project alternatives using economic criteria under uncertainty,
- perform the economic analysis to support capital budgeting decisions, and
- use decision trees to model uncertainty.

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
Course package for topics covered in weeks 10-14 will be provided with content from
- Engineering Economy and the Decision-Making Process, Joseph C. Hartman
Grading Policies

Homework Assignments and Quizzes: 25%
Exam 1: 25% (around week 5 of the semester)
Exam 2: 25% (around week 10 of the semester)
Final Exam: 25% during the week of finals

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

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<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Review of Engineering Economic Analysis</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Borrowing, Lending and Investment</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Establishing a Minimum Attractive Rate of Return</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Replacement Analysis (Before tax and after tax)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Supplementary Analysis (Decision trees and risk), Exam 1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Supplementary Analysis continued (Decision trees and risk)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Economic Analysis in the Public and Regulated Sectors (Benefit-Cost; Utility; Rate Setting)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capital Budgeting (Binary Programming)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Obtaining and Estimating Cash Flows</td>
<td></td>
</tr>
</tbody>
</table>
Final exam during the week of finals

Other Pertinent Course Information

The course will use computational tools to solve engineering economic analysis problems. Students are expected to apply prior knowledge of MATLAB and higher level programming language in this course. Relevant handouts will be provided throughout the course.

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course: ISEN 413 Advanced Data Analytics for Industry

4. Catalog course description (not to exceed 50 words):
Data mining; linear discriminant analysis (LDA), principal component analysis (PCA) and other methods; classification, clustering, and mining, information extraction; dealing with uncertainty, Bayesian inference; neural models, regression and feature selection.

5. Prerequisite(s):
ISEN 310 and ISEN 350
Cross-listed with: [ ]
Stacked with: [ ]

6. Is this a variable credit course? □ Yes □ No If yes, from _____ to _____
7. Is this a repeatable course? □ Yes □ No If yes, this course may be taken _____ times.
Will this course be repeated within the same semester? □ Yes □ No
8. Will this course be submitted to the Core Curriculum Council? □ Yes □ No
9. How will this course be graded? □ Grade □ S/U □ P/F (CLSD)
10. This course will be:

   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.S. in Industrial Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. √ I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://epr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>ISEN</th>
<th>413</th>
<th>Advanced Data Analytics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>Other</td>
</tr>
<tr>
<td>3.00</td>
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</tr>
</tbody>
</table>

Approval recommended by:

[Signature]

[Signature]

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
(f its cross-listed course)

Chair, College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Questions regarding this form should be directed to Sandra Williams at 945-8201 or sandra.williams@tamu.edu
Curricular Services • 07/14
Course title and number  ISEN 413 Advanced Data Analytics for Industry
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Data mining; linear discriminant analysis (LDA), principal component analysis (PCA) and other methods; classification, clustering, and mining, information extraction; dealing with uncertainty, Bayesian inference; neural models, regression and feature selection.
Prerequisites: ISEN 310 and 350.

Learning Outcomes
At the end of the course, the student should be able to

- identify and describe the merits and limitations of statistical learning and data analytics methods,
- use several popular data analytics methods for solving engineering problems, and
- use software tools such as R or MATLAB to model and process data.

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
Gareth James, Daniela Witten, Trevor Hastie, and Robert Tibshirani, 2013, An Introduction to Statistical Learning: with Applications in R, Springer.
Grading Policies

Grading Scale: A = 90-100%, B = 80-90%, C = 70-80%, D = 60-70%, F = below 60%
Grading Weight: Attendance (10%), Homework (20%), Quiz (10%), Midterm (20%), Final (40%)

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. If a test is missed, you must have a written authorized excuse. If possible, please let me know before the test; otherwise, I must be notified within two days of your return to school. Make up exams will be given in accordance with University Rules (see Rule 7 at http://student-rules.tamu.edu).

Course Topics, Calendar of Activities, Major Assignment Dates:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>What is statistical learning?</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Review of regression</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Logistic regression</td>
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<tr>
<td>4</td>
<td>Assess model accuracy</td>
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<td>Ridge regression</td>
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<td>Lasso regression</td>
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<td>7</td>
<td>Basis expansion methods</td>
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<td>8</td>
<td>Neural networks; midterm exam</td>
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<tr>
<td>9</td>
<td>Tree-based methods</td>
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<tr>
<td>10</td>
<td>Support vector machine</td>
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</tr>
<tr>
<td>11</td>
<td>Data reduction</td>
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<tr>
<td>12</td>
<td>Bagging and boosting</td>
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</tr>
<tr>
<td>13</td>
<td>Gaussian process method</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Option pricing using statistical learning</td>
<td></td>
</tr>
</tbody>
</table>

Final exam during the week of finals

Other Pertinent Course Information

The course will use computational tools for analyzing data. Handouts for MATLAB and R will be
provided. Students are expected to apply prior knowledge of MATLAB in this course.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Academic Integrity**

*For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)*

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In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*. 
Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  
   [ ] Undergraduate  [ ] Graduate  [ ] First Professional (DLM, MD, JD, Ph.D, DVM)

2. Request submitted by (Department or Program Name):  
   Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course:  
   ISEN 434 Human Error and System Failures

4. Catalog course description (not to exceed 50 words):
   Human error from a sociotechnical systems perspective; role of error in complex system failures; human behavioral
   modes and system design factors; analytical methods for defining the roles and impact of errors in large-scale system
   accidents; real-world case studies.

5. Prerequisite(s):  
   ISEN 330

6. Is this a variable credit course?  
   [ ] Yes  [ ] No  
   If yes, from ______ to ______

7. Is this a repeatable course?  
   [ ] Yes  [ ] No

   Will this course be repeated within the same semester?  
   [ ] Yes  [ ] No

   If yes, this course may be taken ______ times.

8. Will this course be submitted to the Core Curriculum Council?  
   [ ] Yes  [ ] No

9. How will this course be graded?  
   [ ] Grade  [ ] S/U  [ ] P/F (CLAS)

10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.S. in Industrial Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vp.tamu.edu/resources/export controlexport-control-basics-for-distance-education).

13. Prefix  
   Course #  
   Title (excluding punctuation)

   ISEN  
   434  
   Human Error and System Failure

   Lect.  Lab  Other  SCII  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   3.00  3.00  1435010006  1622  16 - 17  0 0 3 6 3 2

   Approval recommended by:  
   Cesar O. Malave  9-28-15

   Department Head or Program Chair (Type Name & Sign)  Date  
   Chair, College Review Committee  Date

   Department Head or Program Chair (Type Name & Sign)  Date  
   Dean of College  Date

   Submitted to Coordinating Board by:  
   Chair, GC o- UCC  Date  
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  
Curricular Services – 07/14
Course title and number  ISEN 434 Human Error and System Failures
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Human error from a sociotechnical systems perspective; role of error in complex system failures; human behavioral modes and system design factors; analytical methods for defining the roles and impact of errors in large-scale system accidents; real-world case studies.
Prerequisite: ISEN 330

Learning Outcomes
At the end of the course, the student will be able to

- Describe the unique and interacting roles of different cognitive functions influencing human information processing, decision making, and action
- Identify human behavioral modes, and the strengths and limitations of operating in these modes
- Categorize error according to Reason's error classifications
- Analyze an accident to determine sources of error and their impact on system failure trajectories
- Provide system design recommendations to build resiliency into the systems by reducing error likelihood, aiding in recovery, and mitigating error consequences
- Demonstrate an in-depth knowledge of design and human factors that contributed to high-profile real world accident case studies

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD
Textbook and/or Resource Material


Instructor-prepared course packet.

Grading Policies

Grade determination: 20% Homework/quizzes; 20% Midterm exam; 20% Final exam; 40% Semester project.

Grades will be calculated on the basis of total points earned. The points can be curved based on class average and may be lower than the following standard (out of a total of 100 percentage points).

A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 59% and lower

Attendance and Make-up Policies

Homework and Quizzes:

There will be approximately one homework assignment released each week, designed to give you practice in applying principles and ideas learned in the course. Some but not all of the homeworks will be graded (the instructor will specify when they are graded). Ungraded homeworks will be provided to you so you can work through the problems in preparation for graded quizzes and exams.

Homework assignments and solutions will be posted on eCampus and announced in lecture and/or via email. Due dates for each assignment will be given when they are issued, but will generally be within 1 week. Completed assignments can be submitted in class, or electronically via eCampus (in Word or pdf format). Quizzes will be conducted during lecture, either via eCampus or on paper. The total homework/quiz grade will be based on total points, not on the average of percentage grades for each entry.

Generally, assignments that are submitted after the due date/time will not receive any credit except for university excused absences. You are expected to attend all class lectures except for university excused absences. With an excused absence, it is still the student's responsibility to find out the homework assignment and be ready for a quiz. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Exams:

There will be two exams, a midterm and a final exam, each worth 20%. Format for each exam is TBD depending on available resources but will likely use some combination of eCampus and written format. The exams will emphasize material discussed in lecture and practiced in the homework; material exclusively in the text will not be tested but may aid in providing background information. Each exam can include quantitative problems, short answer questions, and/or essays. Grades will be posted on the course eCampus website and students can review their graded exams during office hours.
Make-up for the exams will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://student-rules.tamu.edu/rule07.

Semester project:

This course includes a semester-long group project to analyze and present an in-depth case study of a high-profile historical system accident. Examples include the sinking of the Titanic, Chernobyl nuclear disaster, Deepwater Horizon oil spill, NASA Challenger explosion, the Texas City fertilizer plant explosion, and a number of commercial aviation accidents. 8 - 10 groups of students will be formed by the instructor, and each group will begin researching a chosen topic early in the semester. With various deliverables throughout the course, groups will analyze their accidents according to learned techniques, and come up with redesign solutions to prevent similar accidents from happening in the future. In addition to submitting a final written report, the final four weeks of class will involve student groups presenting their case studies to the class.

Re-grading Policy:

Students have 1 week after grades are released for a homework, quiz, or exam to submit a re-grade request in writing. This request must not exceed 1 page (11 point font, single spacing), and must clearly indicate the relevant problem(s) and justification for why you think re-grading is warranted. Note that a requested re-grade may result in further point deductions if new errors are discovered.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to humans and sociotechnical systems, example case study</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Human factors: perception, attention, decision making</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Human behavioral framework (Rasmussen's Skill-, Rule-, Knowledge- based behavioral modes)</td>
<td></td>
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<tr>
<td>4</td>
<td>Human error and error modeling (Reason's classifications)</td>
<td></td>
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<tr>
<td>5</td>
<td>Error as a system property/design-induced error, error analysis</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Accident models, role of error in accident analysis</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Normal Accident Theory</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Intro to Resilience Engineering</td>
<td></td>
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<tr>
<td>9</td>
<td>Applications of Resilience Engineering and High-Reliability Organizations</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Midterm review, Midterm exam</td>
<td></td>
</tr>
</tbody>
</table>
Student groups present case studies

Final exam during finals week

Other Pertinent Course Information

N/A

Americans with Disabilities Act (ADA)

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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  
   ✔ Undergraduate  □ Graduate  □ First Professional (DO, MD, JD, Ph.D., DPA)
2. Request submitted by (Department or Program Name):  
   Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course:  
   ISEN 442 Organizational Systems
4. Catalog course description (not to exceed 50 words):  
   Role of people and organizations in the design and development of complex engineered systems; providing engineers with the skills needed to effectively manage large-scale system development programs.

5. Prerequisite(s):  
   ISEN 390
   Cross-listed with:  
   Stacked with:

6. Is this a variable credit course?  
   □ Yes  ✔ No  
   If yes, from _____ to _____
7. Is this a repeatable course?  
   □ Yes  ✔ No  
   If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester?  
   □ Yes  ✔ No
8. Will this course be submitted to the Core Curriculum Council?  
   □ Yes  ✔ No
9. How will this course be graded?  
   ✔ Grade  □ S/U  □ P/F (CLAID)
10. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

B.S. in Industrial Engineering

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://wpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
   ISEN 442 | Organizational Systems

<table>
<thead>
<tr>
<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
<th>SCU</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
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<td>1622</td>
<td>16</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by:  
Cesar O. Malave  
Department Head or Program Chair (Type Name & Sign)  
Date  
Chair, College Review Committee  
Date  
Dean of College  
Date  
Chair, GC or UCC  
Date  
Enrollment  

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Course title and number  ISEN 442
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Role of people and organizations in the design and development of complex engineered systems and to provide engineers with the skills needed to effectively manage large-scale system development programs.
Prerequisite: ISEN 330

Learning Outcomes
At the end of the course, the student should be able to

- Use "hard" skills (systems engineering life cycle, strategic planning, project selection, organizational structure, decision-making, network scheduling techniques, and financial analysis) to manage systems effectively
- Use "soft" skills (effective leadership styles, motivation and psychological type, managing creative people, negotiation, and navigating informal networks) to manage people and organizations

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material

Grading Policies

Exams: 60% of grade
Project: 20% of grade
Case Studies: 20% of grade

Grading Scale:
90% - 100%    A
80% - 89%     B
70% - 79%     C
60% - 69%     D
<60%         F

The above scale represents the minimum range necessary to achieve each grade, but the actual grades will likely be based on a curve determined by class average and standard deviation.

EXAMINATIONS

The four exams will cover both the assigned readings and the material presented in class. The exams will consist primarily of problems on specific topics and short essay questions focused on synthesizing concepts covered throughout the semester. The final exam must be taken by all students at the date and time specified by the University. According to the final exam schedule, it will be held on Day, Date, Start Time - End Time in the regular classroom.

PROJECT

Each student will submit and present a "slide deck" relating course concepts to his/her current or intended career. The emphasis will be on applying systems engineering and engineering management principles to actual situations that you are likely to encounter in the real world.

CASE STUDIES

Several individual and team-based case studies will be assigned on a sporadic basis either as homework or as in-class exercises. These case studies are intended to assist you in applying the principles and ideas learned in the course.

Attendance and Make-up Policies

Although attendance will not be formally included as part of your final grade, the exams will include certain topics covered only in class. In addition, some team casework will be completed during class time and will be included as part of the grade. As with a job in industry, you will be responsible for all work and all topics discussed regardless of your attendance. If you foresee an unavoidable absence,
you are strongly encouraged to discuss it with the instructor in advance.

If an examination is missed, you must have a written authorized excuse. If possible, notify the instructor in advance of the evaluation. Otherwise, do so within 2 days of your return to campus. Makeup evaluations will be administered in accordance with University Rules (Rule 7 at student-rules.tamu.edu).

**Course Topics, Calendar of Activities, Major Assignment Dates**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engineering management in a complex world; Formal organization and Informal Networks</td>
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</tr>
<tr>
<td>2</td>
<td>Organization Culture; Theories and Perspectives on Leadership</td>
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<tr>
<td>3</td>
<td>Theories on Motivation; Psychological Type</td>
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<tr>
<td>4</td>
<td>Managing Engineering Teams, Exam 1</td>
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<tr>
<td>5</td>
<td>Introduction to Socio-Technical Systems; Systems Engineering Management</td>
<td></td>
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<tr>
<td>6</td>
<td>Stakeholder Analysis and System requirements; Managing Complexity in Engineering Systems</td>
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<tr>
<td>7</td>
<td>Decision-making in Systems Engineering; R&amp;D Investment in the Public and Private Sectors</td>
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<td>8</td>
<td>History of Large-Scale System Development Process, Exam 2</td>
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<tr>
<td>9</td>
<td>Strategic Planning and Technological Forecasting; Project Selection: A Full Life Cycle Perspective</td>
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</tr>
<tr>
<td>10</td>
<td>Interest-Based Negotiation; Project organization</td>
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<tr>
<td>11</td>
<td>Project Planning Tools; Dealing with Complexity in Project Planning</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Budgets, Earned Value, and Life Cycle Cost Analysis; Exam 3</td>
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</tr>
<tr>
<td>13</td>
<td>Financial Analysis and Accounting; Engineering Systems and Globalization</td>
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</tr>
</tbody>
</table>
Other Pertinent Course Information

TEAMS
This course will involve working in teams, primarily on the assigned case studies. The teams will be formed during the first class day of the second week or after the roster is stable (no more add/drops). Teams will be formed by the instructor such that individuals may be working in concert with students that they do not know or do not know well. This policy is intended to prepare you for a basic reality of industry – that you will regularly work in teams not of your choosing. In general, the teams will consist of 4 to 6 individuals.

Americans with Disabilities Act (ADA)
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Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   ✓ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmaD, LVNA)

2. Request submitted by (Department or Program Name):
   Department of Industrial and Systems Engineering

3. Course prefix, number and complete title of course:
   ISEN 453 Manufacturing Operations

4. Catalog course description (not to exceed 50 words):
   Analytical principles of manufacturing systems design, analysis and control; emphasis placed on stochastic analysis; role of variability and impact on cycle time; push versus pull production strategies including Kanban and constant WIP control; probability, queuing theory, Little’s Law, heavy traffic approximations, and queuing networks.

5. Prerequisite(s):
   ISEN 340

Cross-listed with:

Stacked with:

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?
   ☐ Yes  ✓ No
   If yes, from _____ to _____

7. Is this a repeatable course?
   ☐ Yes  ✓ No
   If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester?
   ☐ Yes  ✓ No
   ☐ Yes  ✓ No

8. Will this course be submitted to the Core Curriculum Council?
   ☐ Yes  ✓ No

9. How will this course be graded?
   ✓ Grade
   ☐ S/U

10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)
    B.S. in Industrial Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ✓ I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls-export-controls-basics-for-distance-education).

13. Prefix: ISEN 453
    Course # Title (excluding punctuation):
    Manufacturing Operations

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
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<td></td>
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</table>

Approval recommended by:

Cesar O. Malave
Date: 9.28.15
Department Head or Program Chair (Type Name & Sign)
Date: Chair, College Review Committee

Date: Dean of College

Submitted to Coordinating Board by:

Chair, GC or UVC
Date:

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 07/14

RECEIVED
SEP 30 2015
EASA

RECEIVED
OCT 1 3 2015
CURRICULAR SERVICES
Course title and number  ISEN 453 Manufacturing Operations
Term (e.g. Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Analytical principles of manufacturing systems design, analysis and control; emphasis placed on stochastic analysis; role of variability and impact on cycle time; push versus pull production strategies including Kanban and constant WIP control; probability, queuing theory, Little’s Law, heavy traffic approximations, and queuing networks.
Prerequisite: ISEN 340

Learning Outcomes
At the end of the course, the student should be able to
- develop and solve analytical models of production systems at the operational level

Instructor Information

Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material

Grading Policies
Homework and Quizzes: 20%

Exam 1: 25% (around week 5 of the semester)

Exam 2: 25% (around week 10 of the semester)

Final Exam: 30% during the week of finals

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Attendance and Make-up Policies

Class attendance is not optional. You are expected to attend all class lectures except for university excused absences. Make-up for the exams and quizzes will be offered only in case of a university excused absence. The university rule regarding excused absences can be found at http://studentrules.tamu.edu/rule07.

Course Topics, Calendar of Activities, Major Assignment Dates

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<tr>
<td>1</td>
<td>Introduction to Factory Models: Definitions, Notation, modeling, performance, deterministic vs. stochastic</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>2</td>
<td>Single Workstation Factory Models: Queueing models</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>3</td>
<td>Single Workstation Factory Models: Markov models</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>4</td>
<td>Single Workstation Factory Models: Balance Equations</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>5</td>
<td>Single Workstation Factory Models: M/M/1 models, G/G/1 approximations</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>6</td>
<td>Exam 1, Processing Time Variability: Breakdown and repairs, other variability</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>7</td>
<td>Single Product Factory Models: Departure process</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>8</td>
<td>Single Product Factory Models: serial systems</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>9</td>
<td>Single Product Factory Models: queueing networks</td>
<td>Chapter 5</td>
</tr>
</tbody>
</table>
10 Single Product Factory Models: merging and splitting. Exam 2 Chapter 5
11 Multiple Product Factory Models: Multiple Product Flow, Service time variability, process step modeling, group technology Chapter 6
12 Models of Various Forms of Batching Batch moves, set up reduction, batch service Chapter 7
13 WIP Limiting Control Strategies: Closed Queueing Networks, General service times Chapter 8
14 WIP Limiting Control Strategies: multiple products, CONWIP, scheduling rules Chapter 8

Other Pertinent Course Information

The course will use computational tools to solve larger problems. Handouts for MATLAB will be provided. Students are expected to apply prior knowledge of MATLAB in this course.

Americans with Disabilities Act (ADA)

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Academic Integrity

For additional information please visit: http://aggiehonord.tamu.edu

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: http://student-rules.tamu.edu/; http://student-rules.tamu.edu/aggiecode; and http://student-rules.tamu.edu/rule20. The complete information of university regulations regarding the handling of academic misconducts (including the appeal process) can be found at http://aggiehonord.tamu.edu/.
I, <insert instructor name>, as the rest of the Industrial & Systems Engineering Faculty, uphold the Aggie Honor Code as an axiom of our academic excellence. We consider its sincere observance to be essential for membership in our department and Texas A&M. We extend you the trust conferred to those who faithfully adhere to our honor code. Abuse of this trust is intolerable, thus I will report and assign an extreme penalty to those who do not stand with us in preserving the integrity symbolized by the Aggie Honor Code, "An Aggie does not lie, cheat, or steal or tolerate those who do."

In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*. 
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (ODS, AOS, AO, Pharmed, DIV+)  
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course: ISEN 460 Capstone Senior Design
4. Catalog course description (not to exceed 50 words):
   Engineering design including identification of a problem; development, analysis and evaluation of alternative solutions; and recommendations for and, where possible, development of systems improvement tools; application of experience and training to provide a product or solution that helps companies clients; balancing client needs with academic requirements.

5. Prerequisites:
   ISEN 340, ISEN 350, ISEN 355 and ISEN 370
   Cross-listed with:
   Stacked with:
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  ☑ No  
   If yes, from ________ to ________
7. Is this a repeatable course?  ☑ No  
   If yes, this course may be taken ________ times.
   Will this course be repeated within the same semester?  ☑ No
8. Will this course be submitted to the Core Curriculum Council?  ☑ No
9. How will this course be graded?  ☑ Grade
   ☐ S/U
   ☐ P/F (CLAS)
10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history) 
   B.S. in Industrial Engineering
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
   ISEN  460  Capstone Senior Design

<table>
<thead>
<tr>
<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
<th>STII</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>PICE Code</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

Approval recommended by:
Cesar O. Malave  9-28-15
Department Head or Program Chair (Type Name & Sign)  Date
Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date
Dean of College  Date

Submitted to Coordinating Board by:
Chair, GC or UCC  Date

Associate Director, Curricular Services  Date
Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Course title and number  ISEN 460 Capstone Senior Design
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Engineering design including identification of a problem; development, analysis and evaluation of alternative solutions; and recommendations for and, where possible, development of systems improvement tools; application of experience and training to provide a product or solution that helps company clients; balancing client needs with academic requirements.
Prerequisites: ISEN 340, ISEN 350, ISEN 355 and ISEN 370

Learning Outcomes
At the end of the course, the Student should be able to

- Use skills from any or all their previous courses,
- Work as a team to solve real-life engineering problems,
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, and
- Consider alternative designs and contrast them in their recommendations.

Instructor Information
Name  TBD
Telephone number  TBD
Email address  TBD@tamu.edu
Office hours  TBD
Office location  TBD

Textbook and/or Resource Material
None; handouts and projects will be provided.
Grading Policies

Class 20%, Team meetings 10%, Proposal 20%, Final Video 25% and Final Report 25%.

Grades assigned are A for 90%–100%, B for 80%–89.9%, C for 70%–79.9%, D for 60%–69.9% and F for less than 60%.

Since this is a writing intensive course, you must pass writing to pass the course; thus, if your written report grade is less than 60%, your course grade will be an F even if all other grades are 100%. The writing grade consists of the proposal and final report, which add up to 45% of the total grade for this course.

Attendance and Make-up Policies

Attendance in this course is mandatory and graded. Students are expected to attend all classes, weekly team meetings and final presentations. Poor attendance will be reflected in both the attendance grade and the team meeting grade as appropriate. Excused absences will be dealt with strictly in accordance with university rules (http://student-rules.tamu.edu).

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to the course, introduction to clients, formation of teams.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Project preferences, code of conduct.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Teams decided and discussion of projects.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>On-site visits.</td>
<td></td>
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<tr>
<td>5</td>
<td>Proposal draft</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Proposal approval and edits.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Midterm review</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Alternative design options</td>
<td></td>
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<tr>
<td>9</td>
<td>Evaluation of alternate designs</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>System modeling.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Verification and Validation.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Computational results and recommendations</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Final report draft</td>
<td></td>
</tr>
</tbody>
</table>
Other Pertinent Course Information

Other than class work, weekly meetings with the corporate sponsor’s point-of-contact (POC) are highly desired. These meetings can be done via a conference telephone call, video conference, or on-site visit (e-mail correspondence does not qualify). All group members must be present with exceptions being made only for university excused absences. Meeting times will be arranged between the individual team leader and the corporate sponsor’s POC.

Americans with Disabilities Act (ADA)

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In this course the penalty for any violation of the Aggie Honor Code, as minimal as it may be, is F*.
Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DOS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Information and Operations Management
   ISYS 370 Introduction to Energy Industry
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   History of the modern Oil & Gas Industry; ecosystem of companies driving the industry; operations involved in
   exploration, production, refining, trading, pipeline, and retail in bringing oil to market; accounting and economics of
   the industry; issues and solutions in supporting supply chain; discussion of technology innovations occurring in the
   industry.

5. Prerequisite(s):
   Cross-listed with: SCMT 370
   Stacked with:

   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☐ Yes ☑ No

7. Is this a repeatable course? ☐ Yes ☑ No
   If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? ☐ Yes ☐ No
   If yes, from ______ to ______

9. Will this course be submitted to the Core Curriculum Council?
   ☑ Yes ☐ No

10. How will this course be graded:
    ☑ Grade ☐ S/U
        ☑ P/F (CLMO)

11. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
        BBA-MIUY; BBA-SCMT
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix | Course # | Title (excluding punctuation)
   ISYS | 370 | Intro to Energy Industry

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICT. Code | Level
   3.00 | 0.00 | 3.00 | 3.00 | 5201010016 | 1634 | 16 | - | 17 | 0 | 0 | 3 | 6 | 3 | 2 | Level | 3

   Approval recommended by:
   Rich Metcalf
   Department Head or Program Chair (Type Name & Sign) 9-16-15
   Date

   Rich Metcalf
   Department Head or Program Chair (Type Name & Sign) 5-16-15
   Date

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
   Curricular Services – 07/14

   Received
   OCT 19 2015
   CURRICULAR SERVICES
Course title and number: ISYS 370 - INTRODUCTION TO ENERGY INDUSTRY
Term: Spring 2017
Meeting times and location: TBA

Course Description and Prerequisites

History of the modern Oil & Gas Industry; ecosystem of companies driving the industry; operations involved in exploration, production, refining, trading, pipeline, and retail in bringing oil to market; accounting and economics of the industry; issues and solutions in supporting supply chain; discussion of technology innovations occurring in the industry.

Prerequisite: Admission to upper division in Mays Business School.

Learning Outcomes

- Identify major energy industry companies and explain their role in the Energy value chain sufficient to support job interviews.
- Discuss key opportunities and challenges facing the industry including global implications of fracturing technology and the geopolitical implications that access and control of oil has had throughout history.
- Analyze the global supply chain supporting onshore and deep offshore environments for time sensitive drilling projects along with the pipeline and transportation requirements to bring oil to retail markets.
- Discuss emerging technologies that will increase the production of oil and improve company efficiencies and safety.

Instructor Information

Name: COLLEEN WALSH, J.D.
Telephone number: 832-533-0097
Email address: COLLEEN.WALSH@SAP.COM
Office hours: By Appointment
Office location: Arranged to support appointment

Textbook and/or Resource Material

Required:
Optional:

### Grading Policies

A course average will from 90 to 100 will be an A, from 80 to 89 will be a B, from 70 to 79 will be a C, etc. The course average will be determined as follows:

- **30% Class participation**
  - 10% Presentation of Company Briefings, 2% for each of 5 company briefings.
  - 20% Attendance at field trips. If a field trip is missed, a student may submit a 5-20 page manuscript within one week of the field trip on the topic of natural gas fracking. The length of the paper is determined by the amount of the trip missed: 5 pages per trip segment.

- **40% 5 Company Executive Briefings** (2 pages each with companies selected from an ecosystem list on the first day of class. Illustrative example/template will be provided.)

- **30% Final Exam** (Combination of multiple choice, fill in the blank, and one essay)

### Attendance and Make-up Policies

Attendance requirements will follow Student Rule 7 ([http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07))

**Make-up Policy:**
If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence.

The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details ([http://studentrules.tamu.edu/rule07](http://studentrules.tamu.edu/rule07)). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at [https://studentactivities.tamu.edu/app/sponsauth/index](https://studentactivities.tamu.edu/app/sponsauth/index).
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student’s presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days: Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:
      i) Texas A&M University Explanatory Statement for Absence from Class form available at [http://attendance.tamu.edu](http://attendance.tamu.edu) or
      ii) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.
9) Mandatory participation as a student-athlete in NCAA-sanctioned competition.
10) In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as deemed medically necessary by the student's physician. Requests for excused absence related to pregnancy should be directed to the instructor.
Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

**Course Topics, Calendar of Activities, Major Assignment Dates**

This is a 15 week course with two field trips incorporated. Guest speakers will be provided, when possible, and will replace group exercises at the end of the class.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to the Energy Industry</td>
<td>Ch. 1, Optional: The Prize, Prologue</td>
</tr>
<tr>
<td>2</td>
<td>Field Trip: Bush Museum: Offshore Drilling Exhibit</td>
<td>Selected article on offshore exploration will be provided.</td>
</tr>
<tr>
<td>3</td>
<td>Exploration &amp; Production Overview</td>
<td>Ch. 3</td>
</tr>
<tr>
<td></td>
<td>1. Overview Lecture</td>
<td></td>
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<td></td>
<td>2. Upstream Company Briefing</td>
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<tr>
<td></td>
<td>3. Group Exercise or Class Speaker</td>
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<tr>
<td>4</td>
<td>Life Cycle of an Oil Well</td>
<td>Ch. 4</td>
</tr>
<tr>
<td></td>
<td>1. Overview Lecture</td>
<td></td>
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<tr>
<td></td>
<td>2. Team Exercise: Negotiating a Lease for the Oil under your suburban home</td>
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<td></td>
<td>3. Guest Speaker (<em>Amy Morgan, Independent Landman; SDG Land Solutions, LLC</em>)</td>
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<tr>
<td>5</td>
<td>Refining &amp; Marketing</td>
<td>Ch. 12 &amp; 13</td>
</tr>
<tr>
<td></td>
<td>1. Overview Lecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Refiner or Downstream Company Briefing</td>
<td></td>
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<tr>
<td></td>
<td>3. Class Exercise or Guest Speaker (<em>Tentatively: Mark Evans, former CIO Tesoro</em>)</td>
<td></td>
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<tr>
<td>6</td>
<td>Energy Supply Chain</td>
<td>Ch. 10 &amp;11</td>
</tr>
<tr>
<td></td>
<td>1. Overview Lecture</td>
<td></td>
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<tr>
<td></td>
<td>2. Oil Field Services, O&amp;G Equipment Mfg, or Pipeline Company Briefing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Class Exercise or Guest Speaker (<em>Tentatively: Christopher Suttle, Shell and Damien Lhors, Schlumberger</em>)</td>
<td></td>
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<tr>
<td>7</td>
<td>Field Trip to Houston, Visit FMC CIO, LINN Energy Executive Team, the Natural History Museum: Energy Exhibit, &amp; SAP Energy Team</td>
<td>Please plan on spending the full day in Houston (8 – 5 pm); car pool &amp; other logistics will be discussed during prior class.</td>
</tr>
<tr>
<td>8</td>
<td>No Class: Class Hours covered by Field Trip</td>
<td></td>
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</tbody>
</table>
Economics of Oil  
1. Lecture on the Financial Value  
   Chain for an Oil Field  
2. Class Exercise: Case Study  
   as a CEO of an Integrated Oil  
   & Gas company

Technology's Evolving Role in the  
Energy Industry:  
1. Digital Oil Fields  
2. Cloud Technologies impact on  
   Energy Companies  
3. Group Discussion or Guest  
   Speaker (Tentatively:  
   Snehanshu Shah, SAP)

Natural Gas Boom  
1. Overview Lecture  
2. Natural Gas Ecosystem  
   Company Briefing  
3. Class Exercise or Guest  
   Speaker (Tentatively: Sam  
   Coss, Lewis Energy or Field  
   Trip to Frac Drill site owned by  
   Lewis Energy)

Overview of the Petrochemical  
Industry  
1. Overview Lecture  
2. Petrochemical Company  
   Briefing  
3. Class Exercise or Guest  
   Speaker (Tentatively: Laura  
   Tibideau, Americas Styrenics)

The Future of the Global Oil & Gas  
Industry  
1. Horizontal Drilling &  
   Fracturing & Implications on  
   the World Economy &  
   Environment  
2. Class discussion of selected  
   topics  
3. Exam Preparation

No Class: Course hours covered by  
Houston Field Trip

Final Exam (TBD)
Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity
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INFO STUDENT SERVICES COMMUNICATIONS PORTAL

The INFO Student Services Office (SSO) communicates with students in our department (i.e. MS-MIS, PPA-MIS, MISHY, and SCMT) via eCampus. Students are made aware of important deadlines, scholarship and job opportunities, announcements of student activities and CMIS events, etc. through the INFO Student Services Communications portal in eCampus (http://ecampus.tamu.edu). Students will see “INFO Student Services Office Communications” listed under “My Organizations” upon logging into eCampus.

When accessing the INFO Student Services Communications portal through eCampus, students will see the following folders in the Course Content area: Announcements, Internships, Full-Time Jobs, and Local Part-Time Jobs. Information from the Department will be posted in the appropriate folders, and all students within the department will be able to access the posted content at any time.

In addition, there are four separate distribution groups within this portal: MS-MIS students, PPA-MIS students, MISHY undergraduate students, and SCMT undergraduate students. The same information that is posted in the folders will be sent to students through the e-mail function within eCampus; however, the messages will be sent only to the students for whom they are directly relevant. These messages will be sent to students’ TAMU e-mail accounts.

Finally, important events/deadlines will be noted in the calendar in eCampus. Students should check the calendar frequently for important dates!

If a student is not receiving messages from the SSO, he/she should contact the SSO at INFOStudentServices@mays.tamu.edu to request to be added to the distribution list. The student’s full name, UIN, TAMU e-mail address, and major should be included in the message.

Mays Food & Beverage Policy

We have beautiful and state-of-the-art classrooms in the Wehner Building and Cox Hall. We want to maintain the high quality of these classrooms for the students in future years. Thus, it is necessary for you to adhere to the established policy of no beverages, food, tobacco products, or animals (unless approved) within the classrooms. Bottled water is permitted. Your assistance is greatly appreciated.
Texas A&M University
Departmental Request for a New Course
Undergraduate  ▪ Graduate  ▪ Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: ✓ Undergraduate  □ Graduate  □ First Professional (DOL, MD, JD, PharmD, DFM)
2. Request submitted by (Department or Program Name):
   International Studies
3. Course prefix, number and complete title of course:
   JAPN 325 Japanese Language and Culture Through Manga
4. Catalog course description (not to exceed 50 words):
   Examination of Japanese and Asian visual, linguistic, and cultural traditions, with emphasis on genre of Manga.

5. Prerequisite(s): JAPN 202
   Cross-listed with:
   Stacked with:
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? □ Yes  ✓ No
   If yes, from _______ to _______

7. Is this a repeatable course? □ Yes  ✓ No
   If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? □ Yes  □ No

9. Will this course be submitted to the Core Curriculum Council? □ Yes  □ No

10. How will this course be graded: ✓ Grade  □ S/U  □ P/F (CLMD)

11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

Minor in Japanese: B.A. in International Studies

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ✓ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    JAPN  325  JAPANESE MANGA

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  HICE Code
   3.00  0.00  0.00  3.00  1603020001  1663  16  *  17  0  3  6  3  2

   Approval recommended by:

   Robert R. Shandley
   Department Head or Program Chair (Type Name & Sign)  Date

   Department Head or Program Chair (Type Name & Sign)  Date
   (if cross-listed course)

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or smwilliams@tamu.edu
Curricular Services – 07/14

CURRICULAR SERVICES
Instructor: George Adams
Office: ACAD 103c
Office hours: MW 1:00-3:00, or by appt.
georgeadams@tamu.edu
phone: 845-2124 (INTS main office)

Texas A&M University
Spring 2017
Class meeting: MWF 9:10-10:00
ACAD 226

Course description
Examination of Japanese and Asian visual, linguistic, and cultural traditions, with emphasis on genre of Manga.

Hayao Miyazaki's animated film *Spirited Away* is a kind of Japanese "Pilgrim's Progress." It recounts the spiritual journey of a girl through the world of gods, demons, and spirits in an effort to rescue her parents. It can be read as a Buddhist parable. Miyazaki and his collaborators interweave Buddhist and Shinto beliefs and imagery with exciting and bizarre action throughout the story. Unlike Christian parables, however, the meanings are rarely explicit. The subtext is allusive, rather than overtly metaphorical. The result is a story that can be experienced on two levels with equal enjoyment. The purpose of this course is to introduce students to the world of the parable that might not be accessible to those of us who are unfamiliar with Japanese and Asian spiritual traditions. Like the world of spirits that Chihiro enters, it is not immediately visible, but it is there—in fact it suffuses the movie.

By analyzing the manga and the film together, students will further develop Japanese language skills, while also learning about the basic imagery, iconography, and popular practice of Buddhism and Shintoism, and how certain beliefs are reflected in these cultural works.

Prerequisites
JAPN 202, or equivalent.

A student enrolling for the first time in a Texas A&M University foreign language course who has previously acquired knowledge of that foreign language, whether acquired through high school study or cultural/family experience, and who has not received college credit for that language must take a placement exam to determine the appropriate course for her/his level of ability. Information regarding the placement exam, as well as who qualifies for it, is posted on the INTS website: [http://internationalstudies.tamu.edu/html/placementexams.html](http://internationalstudies.tamu.edu/html/placementexams.html). Dates and times can be found on [marketplace.tamu.edu ‒ Dept. of International Studies ‒ Placement Exams](http://marketplace.tamu.edu). Questions can be directed to the appropriate academic advisor for International Studies, currently Nancy Neil (neil123@tamu.edu).

Learning outcomes
Upon completion of the course, students will be able to:

- demonstrate literacy in Japanese by being able to translate the manga *Spirited Away*;
- demonstrate listening comprehension in Japanese by being able to watch and understand the movie *Spirited Away*;
- reproduce Japanese speech, using correct dialects and levels of the language;
- employ online resources to comprehend unfamiliar kanji, vocabulary, and jukugo;
- identify Buddhist and Shinto imagery, iconography, and practice.

Required course materials

  **Important:** If students purchase the manga, they must purchase all five volumes in the manga series.
- Online materials noted on syllabus and/or posted to eCampus.
- All films and videos available at: mediamatrix.tamu.edu.
- An electronic dictionary, such as ones found in smart phones, is required; study applications on smart phones are recommended.
Course requirements and evaluation

Daily translation quizzes 50%
Video project 25%
Final exam 25%

Grading scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F

Daily quizzes: Each class begins with a daily quiz that is taken directly from the homework, for which students will study lists of new vocabulary and kanji, and will translate portions of the manga. Daily homework assignments will be posted to eCampus. Homework itself is not graded since quizzes are taken directly from the homework. Quizzes are both daily and cumulative, meaning that you will be responsible for the material from the homework you did for that particular lesson as well as previous lessons. Daily quizzes cannot be made up except in the case of university-approved excused absence.

Video project: Students will choose parts of the screenplay to memorize and perform in class or on video. A detailed rubric will be posted to eCampus which details the parameters of the presentation, including project length. Videos must be submitted in time for viewing in class during Week 14.

Final exam: Cumulative exam. Final exam cannot be made up except in the case of university-approved excused absence.

Absences

Attendance is mandatory. Failure to take a daily quiz will lower your average (except in the case of university-approved excused absence). For illness- or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional’s confirmation that absence from class was necessary (see Rule 7.1.6.1 and 7.1.6.2). University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.

Common Sense Class Policies

- Learning a language involves doing the speaking and listening activities in class, and that means working with other students; you have the right to expect support from your classmates and they have the right to expect the same from you. All students should come prepared to participate fully.
- Turn off your cell phones and other communication devices before class starts. No text messaging.
- Don’t put anything in your mouth that interferes with speaking. Don’t put anything in your ears that interferes with listening.
- Do not put your feet on the furniture. This is an important rule anywhere outside the Western Hemisphere.
- Check your TAMU email account.
- Do not fall behind. If you do, I suggest you arrange a meeting with me.
- You may bring a covered drink (such as bottled water) into the classroom, but do not bring in food. Throw away your trash.

Academic integrity


Disabilities

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit http://disability.tamu.edu.
### Course Schedule

<table>
<thead>
<tr>
<th>Week 1</th>
<th><em>Sen to Chihiro no Kami Kakushi</em> Book 1, pp. 8-20</th>
<th>Manga and Movie</th>
<th>Buddhism and Shintoism</th>
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<td></td>
<td>How to “read” a Jinja and an Otera</td>
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<td><a href="http://www.asian-studies.org/EAA/sjoquist.htm">http://www.asian-studies.org/EAA/sjoquist.htm</a></td>
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<td>Week 2</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 1, pp. 21-32</td>
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<td>What do you do in a Jinja or an Otera?</td>
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<td>Week 3</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 1, pp. 33-45</td>
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<td>Identify, understand, and know the origins:</td>
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<td></td>
<td>Buddha, Kannon sama, O Jizo sama</td>
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<td>Week 4</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 1, pp. 46-60</td>
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<td>Buddhism and death: Popular beliefs and practices</td>
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<td>Selections from the movie O Soshiki</td>
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<td>Week 5</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 2, pp. 85-113</td>
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<td>Bosatsu and Nyorai</td>
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<td>Week 6</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 2, pp. 114-142</td>
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<td>Which Buddha?</td>
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<td>Week 7</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 2, pp. 143-170</td>
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<td>Recognizing the mudras</td>
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<td>Week 8</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 3, pp. 6-27</td>
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<td>Youkai, Yurei, Bakemono, and Oni</td>
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<td><strong>SPRING BREAK</strong></td>
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<td>Week 9</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 3, pp. 28-49</td>
<td>Manga and Movie</td>
<td>Ghost stories</td>
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<td>Various sources</td>
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<td>Week 10</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 4, pp. 6-91</td>
<td>Buddhism and Shintoism</td>
<td>Identify, understand, and know the origins</td>
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<td>Daruma san, Fudo Myo, and Shape-shifters</td>
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<td>Week 11</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 4, pp. 92-169</td>
<td>Buddhism and Shintoism</td>
<td>Identify, understand, and know the origins: Shichi Fukujin?</td>
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<td>Week 12</td>
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<td>Buddhism and Shintoism</td>
<td>Shinto kami</td>
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<td>Week 13</td>
<td><em>Sen to Chihiro no Kami Kakushi</em> Book 5, pp. 112-178</td>
<td>Buddhism and Shintoism</td>
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<td></td>
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<td>What are the Shinkyou?</td>
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<td>What is Sokagakkai?</td>
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<tr>
<td>Week 14</td>
<td>Videos and final project presentations</td>
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**FINAL EXAM** to be held on the date/time set for this class in the published schedule on the academic calendar.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type: [✓] Undergraduate  [ ] Graduate  [ ] First Professional (DOS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Mechanical Engineering

3. Course prefix, number and complete title of course: MEEN 440: Bio-inspired Engineering Design

4. Catalog course description (not to exceed 50 words):
Expand design space available to engineering by developing an understanding of how nature solves problems; study of effective bio-inspired design and biomimetic applications to draw solutions from nature; enhance concept generation through the use of bio-inspired design; use current state of the art methods in bioinspired design; view nature's solutions to different problems from an engineering perspective.

5. Prerequisite(s): MEEN388, BMEN381, or BAEN375.

6. Is this a variable credit course? [✓] No  If yes, from _______ to _______.

7. Is this a repeatable course? [✓] No  If yes, this course may be taken _______ times.

8. Will this course be repeated within the same semester? [ ] Yes  [✓] No

9. Will this course be submitted to the Core Curriculum Council? [✓] Yes  [ ] No

10. How will this course be graded? [✓] Grade  [ ] S/U  [✓] P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   BS in Engineering

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. [✓] I verify that I have reviewed the FAC for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)

<table>
<thead>
<tr>
<th>MEEN</th>
<th>440</th>
<th>Bio Inspired Engr Des</th>
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Approval recommended by:

[Signature]

Digitally signed by Timothy J. Jacobs
Date: 2015.10.04 11:11:46 -05'00'

Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date

Dean of College  Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 07/14
Course number and title     MEEN 440 Bio-Inspired Engineering Design
Term                  Fall 2015
Meeting times and location MWF 10:20-11:10; ENPH 212

Course Description and Prerequisites

This course covers the current state of the art in bio-inspired engineering design and biomimetics. The purpose of this course is to expand the design space available to engineering students by developing an understanding of how nature solves problems. Historically conventional design and optimization schemes employed by man will be compared and contrasted with design and optimization schemes employed by nature. Case studies of effective bio-inspired design and biomimetic applications will be used to elucidate the benefits of drawing solutions from nature. Multiple schools of thought on how to effectively practice bioinspired engineering design, e.g. BioTriz, function-based, Four-Box method, T-charts, etc. will be explored and applied to illustrative example problems. Current peer-reviewed publications in Bioinspiration and Biomimetics will be presented and discussed in class to develop and maintain leading edge understanding of the field. Course goals include an overall enhanced concept generation potential through the use of bio-inspired design, the ability to use current state of the art methods in bioinspired design, and the ability to view nature’s solutions to different problems from an engineering perspective.
Pre-requisites: MEEN368, BMEN361, or BAEN375.

Instructor Information

Name               Michael R. Moreno, PhD
Telephone          (979) 845-8500 – MEOB 528
Email address      michael.moreno@tamu.edu
Office hours       Tuesday and Thursday 12:30pm-1:30pm, walk ins, and appointments.
Office location    MEOB 528

Textbook and/or Resource Material


Grading Policies

Work missed due to absences will only be excused for University-approved activities in accordance with Texas A&M University Student Rules (http://student-rules.tamu.edu/rule07). Specific arrangements for make-up work in such instances will be handled on a case-by-case basis.

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<tr>
<th>Component</th>
<th>Weight</th>
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<tr>
<td>In-class participation</td>
<td>10%</td>
<td>&gt;90%</td>
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<td>Homework</td>
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<td>Mid-Term Exam</td>
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<td>&gt;70 to 80%</td>
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<td>Presentation</td>
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<td>&gt;60 to 70%</td>
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<tr>
<td>Term Project</td>
<td>20%</td>
<td>&lt;60%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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</table>
MEEN 440 Syllabus Continued, Page 2

General Policies:

- No late homework or projects, or exams except relative to University policies
- Academic dishonesty will not be tolerated
- Exam material will come from notes, book chapters, and homework assignments
- Challenges to grades given on homework assignments or exams should be submitted in writing. State the specific challenge and attach the specific work in question. Challenges must be received by the end of the working day that follows the return of the work in question.

Details of Subject Topics:

History of Bio-Inspired Design and Biomimetics. Compare and contrast design in engineering versus design in Nature. Compare and contrast conventional design and optimization schemes with those employed by nature. Differentiate BioInspiration vs Biomimetics. Identify Design Principles employed by Nature, including but no limited to partition of structural function, hierarchical structure, fractal geometry, self-similarity, and topology of natural structures. Survey natural processes including but not limited to swarming behaviors, cellular automata, artificial intelligence, self-organization, strange attractors, and self-repair. State of the art examples of applications of Bioinspiration and Biomimetics across multiple disciplines with a focus on optimization, mechanical, material, and structural applications. Methods of applying bioinspired engineering principles. Introduction of different schools of thought related to Bioinspired engineering including but not limited to formal case study systems, functional analysis systems, and BioTRIZ.

Term Project and Presentation

The term project will be completed as a team assignment. Teams will be formed in the second week of classes and will be employed periodically for in-class exercises. Teams will propose a design problem. Once a design problem has been approved by the instructor teams will then begin developing a brief PowerPoint presentation of the design problem including key elements of the design process as discussed in class. The term project will be a presentation of the design solutions achieved employing the methods of incorporating bio-inspiration discussed in class.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Topics Covered

**Week 1** – Compare and contrast Bionics, Biomimicry, and BioInspiration. Survey of conventions, formulations, and descriptions of the Design Process.

**Week 2** – Introduction to tools commonly used in the design process, including but not limited to House of Quality, Functional Block Diagrams, Work Breakdown Structures, Critical Path, Gantt Charts, Morphological Charts and other methods of ideation.

**Week 3** – Forward Design (Needs Driven Design), Reverse Design (Knowledge Driven Design), Total Design (Life Cycle Design), Inverse Design (Reverse Engineering Design).

**Week 4** – Instructor led in-class Design Project to illustrate concepts to date

**Week 4** – Engineering Design Principles, Design Solution Space and Optimization

**Week 5** – Thinking outside the box, Epistemology and Axiology, Post-modernism in Design, Non-Euclidean Geometry, Topology, and Fractal Geometry in Nature

**Week 6** – Design in Nature, Iterated Function Systems, Chaos, Attractors, Allometric versus Isometric transformations


**Week 8** – Case-Based Reasoning Cycle, Case-Based Reasoning Task Hierarchy, Nature as Engineered Systems, Structure in Nature, Bio-Inspired Technology Tree

**Week 9** – Functional Modeling (general), Bio-Inspired Concept Generation Approaches, Biological System Functional Decomposition Process, Mimicry Categories, Engineering to Biology Thesaurus

**Week 10** – Formal Functional Modeling, the Functional Basis, Functions and Flows in the Functional Basis, Functional Decomposition and Repository Building

**Week 11** – Generating a Functional Model and using the Functional Basis, Examples of Applications with the Functional Basis Concept Generator, Solution Principle Adaptation

**Week 12** – The Biomimcry Institute, “AskNature” approach, Biomimicry Taxonomy, Groups, Sub-groups, and Functions in the Biomimicry Taxonomy


**Week 14** – Current State-of-the-Art, Four Box Method, T-Charts, The Future – Swarming Intelligence, Artificial Intelligence, Smart Materials, Complexity, Review for Final

Course Learning Outcomes

1. Identify the steps in the Engineering Design Process;
2. Use tools commonly used in the design process, including but not limited to House of Quality, Functional Block Diagrams, Work Breakdown Structures, Critical Path, Gantt Charts, Morphological Charts and other methods of ideation;
3. Describe Forward Design (Needs Driven Design), Reverse Design (Knowledge Driven Design), Inverse Design (Reverse Engineering Design), and Total Design (Life Cycle Design) approaches;
4. Identify design principles employed by man and compare with those employed by Nature
5. Calculate fractal dimension of natural structures;
6. Calculate optimal values for parameters in the design space;
7. Identify topological similarity in structures;
8. Apply a case-based reasoning cycle to a design problem;
9. Determine opportunities for innovation using a bio-inspired technology tree;
10. Apply a functional basis approach to a design problem;
11. identify functions and flows in a design problem;
12. use a functional repository to apply a bio-inspired solution to a design problem;
13. use AskNature.org to solve a design problem;
14. identify potential solutions to a design problem using the biomimicry taxonomy;
15. use the BioTRIZ method to solve a design problem;
16. determine design solutions from the BioTRIZ inventive principles;
17. Use the Four-Box system and T-Charts to solve a design problem.
Texas A&M University  
Departmental Request for a New Course  
Undergraduate • Graduate • Professional  
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DMD, MD, JD, PharmD, WAV)

2. Request submitted by (Department or Program Name):  
   Department of Engineering Technology and Industrial Distribution

3. Course prefix, number and complete title of course:  
   MMET 201 • Manufacturing and Materials

4. Catalog course description (not to exceed 50 words):  
   Survey of metallic and non-metallic materials; selection and applications of materials; introduction to traditional and non-traditional manufacturing processes, assembly processes, and metrology.

5. Prerequisite(s):  
   ENGR 111

6. Is this a variable credit course?  
   - Yes  
   - No

7. Is this a repeatable course?  
   - Yes  
   - No

8. Will this course be repeated within the same semester?  
   - Yes  
   - No

9. Will this course be submitted to the Core Curriculum Council?  
   - Yes  
   - No

10. How will this course be graded?  
    - Grade  
    - S/U  
    - P/F (CLMD)

11. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
       B.S. in Industrial Distribution
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix  
    Course #  
    Title (excluding punctuation)

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Approval recommended by:

Dr. Jay Porter  
Department Head or Program Chair (Type Name & Sign)  
Date

Department Head or Program Chair (Type Name & Sign)  
Date (if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 07/14
MMET 201 – Manufacturing and Materials – Fall 2016

DESCRIPTION
Survey of metallic and non-metallic materials; selection and applications of materials; introduction to traditional and non-traditional manufacturing processes, assembly processes, and metrology.

LEARNING OUTCOMES:
1. Students will be able to define, recognize, and describe common materials (metallic and non-metallic) (Understand)
2. Students will understand the properties, manufacturing processes, and typical applications for common materials (Understand)
3. Students will be able to use laboratory equipment to gather material properties using common standard tests (Apply)
4. Students will understand and integrate different manufacturing processes to solve technical problems (Understand)
5. Students will understand nomenclature and numbering systems associated with common industrial materials (Understand)
6. Students will be able to communicate and assess products using both SI and English units (Apply)

INSTRUCTOR:
Michael D. Johnson, Ph.D.
mdjohnson@tamu.edu
Office: THOM 118B; Phone: 979-845-4902

LAB INSTRUCTORS: TBD

MEETING TIME: TBD

PREREQUISITES: ENGR 111

OFFICE HOURS: TBD


ATTENDANCE: Attendance is per University Regulations and is strongly recommended. The lectures in this course contain unique material that is difficult to find in the literature, and they also provide important guidelines to study for the examinations. See next page for excused absence rules.

GRADING:

<table>
<thead>
<tr>
<th>Component</th>
<th>% of Points</th>
<th>Grade</th>
<th>% of Points</th>
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<tr>
<td>Exams (2x)</td>
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<td>Final Exam</td>
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<tr>
<td>Laboratory</td>
<td>25%</td>
<td>B</td>
<td>≥79.5</td>
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<tr>
<td>Attendance and Class Participation (8% for attendance)</td>
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<td>≥69.5</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
<td>D</td>
<td>≥59.5</td>
</tr>
</tbody>
</table>

See next page for excused absence rules.
NOTES AND COMMENTS:

1. Each regular exam is worth 15% of your grade; the final exam is worth 25% of your grade.
2. Makeup exams and late lab work will not be accepted except for excused absences per TAMU regulations.
3. Attendance is per University Regulations and is strongly recommended. Attendance will usually include a short quiz over the readings for that class.
   - Homework will be due at the beginning of class on the due date – NO CREDIT WILL BE GIVEN FOR LATE HOMEWORK without an excused absence.
   - If you have a question please ask. Others probably have the same question. It is better to clear it up during the lecture than after the exam.
   - As per Student Rule 21 (http://student-rules.tamu.edu/rule21) disruptive behavior that detracts from other students' ability to pay attention in class will result in removal from the class

Aggie Honor System: “An Aggie does not lie, cheat or steal or tolerate those who do.” The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. It only calls for honesty and integrity, characteristics that Aggies have always exemplified. The Aggie Code of Honor functions as a symbol to all Aggies, promoting understanding and loyalty to truth and confidence in each other.

American with Disabilities (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Plagiarism and Intellectual Property: The handouts used in this course are copyrighted. “Handouts” means all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless you are expressly granted permission by the copyright holder.

As commonly defined plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty.”

Excused Absences
Absences will be excused only per Student Rule 7, which may be found at:

Documentation must be provided from a health care professional in the event of an excused absence due to illness.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>Lecture</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>1 - 8/29</td>
<td>Lecture</td>
<td>Units and Metrology</td>
</tr>
<tr>
<td></td>
<td>Lab</td>
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</tr>
<tr>
<td>2 - 9/5</td>
<td>Lecture</td>
<td>Materials Science and Material Types</td>
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<tr>
<td></td>
<td>Lab</td>
<td>Lab safety and Metrology</td>
</tr>
<tr>
<td>3 - 9/12</td>
<td>Lecture</td>
<td>Plastics: Properties and Applications</td>
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<tr>
<td></td>
<td>Lab</td>
<td>Plastic Properties</td>
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<tr>
<td>4 - 9/19</td>
<td>Lecture</td>
<td>Ceramics and Glassess: Properties and Applications</td>
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<tr>
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<td>Lab</td>
<td>Ceramics Manufacturing</td>
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<tr>
<td>5 - 9/26</td>
<td>Lecture</td>
<td>Non-ferrous Metals: Properties and Applications and Test 1</td>
</tr>
<tr>
<td></td>
<td>Lab</td>
<td>Non-ferrous Metal Properties</td>
</tr>
<tr>
<td>6 - 10/3</td>
<td>Lecture</td>
<td>Steel: Properties and Applications</td>
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<tr>
<td></td>
<td>Lab</td>
<td>Steel Properties I</td>
</tr>
<tr>
<td>7 - 10/10</td>
<td>Lecture</td>
<td>Steel: Nomenclature and Strengthening</td>
</tr>
<tr>
<td></td>
<td>Lab</td>
<td>Steel Properties II</td>
</tr>
<tr>
<td>8 - 10/17</td>
<td>Lecture</td>
<td>Composites: Properties and Applications</td>
</tr>
<tr>
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<td>Lab</td>
<td>Composites Manufacturing</td>
</tr>
<tr>
<td>9 - 10/24</td>
<td>Lecture</td>
<td>Raw Materials Production</td>
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<tr>
<td></td>
<td>Lab</td>
<td>Casting</td>
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<tr>
<td>10 - 10/31</td>
<td>Lecture</td>
<td>Extrusion and Molding Processes and Test 2</td>
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<td></td>
<td>Lab</td>
<td>Extrusion and Molding</td>
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<tr>
<td>11 - 11/7</td>
<td>Lecture</td>
<td>Machining: Traditional and Non-traditional Processes</td>
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<tr>
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<td>Lab</td>
<td>Machining I</td>
</tr>
<tr>
<td>12 - 11/14</td>
<td>Lecture</td>
<td>Other Forming and Finishing Processes</td>
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<td>Lab</td>
<td>Machining II and Time-Motion</td>
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<tr>
<td>13 - 11/21</td>
<td>Lecture</td>
<td>Joining and Assembly Processes</td>
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<tr>
<td></td>
<td>Lab</td>
<td>Welding</td>
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<tr>
<td>14 - 11/28</td>
<td>Lecture</td>
<td>Advanced Manufacturing Overview</td>
</tr>
<tr>
<td></td>
<td>Lab</td>
<td>Demo of EDM, FDM, Micromachining, and CNC</td>
</tr>
<tr>
<td>15 - 12/12</td>
<td>TBD</td>
<td>Final Exam: TBD</td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate ♦ Graduate ♦ Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): International Studies

3. Course prefix, number and complete title of course: MODL 321 Culture and Civilization I

4. Catalog course description (not to exceed 50 words):
   Studies in national culture and civilization from classical antiquity through the nineteenth century. Conducted in the target language.

5. Prerequisite(s): Junior or senior classification, or instructor approval.

6. Is this a variable credit course?  ☐ Yes  ☑ No  If yes, from ______ to ________

7. Is this a repeatable course?  ☐ Yes  ☑ No  If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester?  ☐ Yes  ☐ No

9. Will this course be submitted to the Core Curriculum Council?  ☑ Yes  ☐ No

10. How will this course be graded?  ☑ Grade  ☐ SU  ☐ P/F (CLMD)

This course will be:
   a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.A. in Modern Languages: FREN/GERM/RUSS; B.A. in International Studies

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education/)

13. Prefix  Course #  Title (excluding punctuation)

   MODL  321  Culture and Civilization I

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  EICE Code
   3.00  0.00  0.00  3.00  1601010001  1663  16 - 17  0 0 3 6 3 2

   Approval recommended by:

   Robert R. Shandley
   Department Head or Program Chair (Type Name & Sign)  Date

   Department Head or Program Chair (Type Name & Sign)  Date
   (if cross-listed course)

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu
Curricular Services - 07/14

Received  OCT 23 2015
MODL 321 • Culture and Civilization I

Dr. Stefanie Harris
stefanieharris@tamu.edu

TAMU
office: ACAD 106b
phone: 843-2124 (INTS main office)

Texas A&M University
Summer 2017

Bonn/Germany
office: AIB, Adenauerallee 7
phone: 0228.338839-10
Class meeting: M-F 9:00-11:00;
Required attendance at site
visits and cultural events

Course description
Studies in national culture and civilization from classical antiquity through the nineteenth century.
Course conducted in target language: German.

In this course, we use the rich history of the Rhineland to bring alive the cultural traditions from the Romans through the Holy Roman Empire to the Classical revival in the early 19th century. Classroom instruction is complemented by field trips, including the major Roman Empire capital in Trier; Charlemagne’s seat of government, cathedral, and grave in Aachen; the Gothic cathedral in Cologne; the Gutenberg Museum in Mainz; the Cathedral in Worms, and more.

Prerequisites
Junior or senior classification, or instructor approval.

Learning outcomes
Upon completion of the course, students will be able to:
• Define key moments in German cultural production and socio-political history from the Germanic tribes through the early nineteenth century;
• Identify major cultural locations in Germany and describe their significance in the larger national and/or European context;
• Interpret and analyze primary cultural documents in the target language.

Required course materials
• Hagen Schulze, Germany: A New History
• All other course materials available through eCampus.
• All films/videos available through mediamatrix.tamu.edu.

Course requirements and evaluation
Site visit reports (5 x 15% each) 75%
Final take-home exam 25%

Site visit reports (5 unique reports of sites visited May 23-June 9) (5 x 15% = 75%):
During the program we will go on numerous excursions and site visits. Each site visit report should focus on one of the program field trips. Describe the nature of the site visit, the role of the site in German history/politics/culture, and 1-2 aspects that you found particularly compelling about the site. Reports must be written in German and should be at least 300 words in length. Reports will be submitted through eCampus and may be submitted on a rolling basis; however, all reports for GERM 321 must be submitted by June 11.

Final take-home exam (25%):
Final exam will be a take-home essay question, for which students will submit an essay in English of at least 750 words. Exam will be submitted through eCampus.

Grading scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F
Language of the course
This study abroad experience is a unique opportunity for you to immerse yourself in the German language and German culture. You are expected to use as much German as possible in interactions with your instructor, AIB staff, and your classmates, both inside and outside of the classroom.

Attendance
Attendance in class and on all program excursions is mandatory (except for weekend excursions that have been identified as optional). On days we are in the classroom, we will meet at AIB, Adenauerallee 7. Class will start promptly at 9:00am. You will be provided a detailed schedule with departure times/places on days that we have field trips. Plan on arriving at the departure area at least 10 minutes before the scheduled departure. We will usually travel by bus or train, and depart from AIB or the Hauptbahnhof. The train/bus will depart promptly at the scheduled departure time and will not wait for you.

For each unexcused absence, your final course grade will be penalized 5%. Attendance is essential to complete the course successfully. For illness-or injury-related absences of fewer than three days, a note from a health care professional confirming date and time of visit will be required in order to count the absence as university-excused; for absences of three days or more, the note must also contain the medical professional’s confirmation that absence from class was necessary (see Rule 7.1.6.1 and 7.1.6.2). University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07. Please see http://student-rules.tamu.edu/rule7.htm for current policy on university-excused absences.

Academic integrity

Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit http://disability.tamu.edu.
Course Plan

Su 5/21     Departure from US
Mo 5/22    Arrival in Bonn; meet host family at AIB
Tu 5/23   Welcome and program introduction
          Tour of Bonn

*Focus on the pre-history of Germany, including the Germanic tribes and the Romans.*
Hagen Schulze, *Germany: A New History*, Chapter 1

W 5/24     Classroom: The Germanic Tribes and the Romans
          Evening: Nachtwächterrundgang (21.00)
Th 5/25    Field trip: Stadtrundgang Köln; Römisch-Germanisches Museum, Köln

*Focus on the reign of Charlemagne; the early Middle Ages.*
Hagen Schulze, *Germany: A New History*, Chapter 2
Das Hildebrandslied: [http://www.ib.hu-berlin.de/%7Ehab/arnd/Start.html](http://www.ib.hu-berlin.de/%7Ehab/arnd/Start.html)

F 5/26     Classroom: The Holy Roman Empire and Carolingian Renaissance
          Evening: Welcome Party!
Sa 5/27    Free day
Su 5/28    Field trip: Trier

*Focus on the Middle Ages in Germany through the Reformation; the Thirty Years War.*
Hagen Schulze, *Germany: A New History*, Chapters 2-3
[http://www.pohlw.de/literatur/epochen/ma.htm](http://www.pohlw.de/literatur/epochen/ma.htm)
[http://www.teachsam.de/deutsch/d_literatur/d_litgesch/barock/litge_barock_1.htm](http://www.teachsam.de/deutsch/d_literatur/d_litgesch/barock/litge_barock_1.htm)
Selections from *Das Nibelungenlied*

M 5/29     Classroom: Introduction to Middle High German and the Rhineland in the Middle Ages
Tu 5/30    Field trip: Aachen, capital of the Holy Roman Empire under Charlemagne
W 5/31    Field trip: Cathedral Schwarz-Rheindorf; Schützen Museum, Cologne: Medieval art
          Evening: Opernbuch, “Der Wildschütz”
Th 6/1     Classroom: Reformation
F 6/2     Field trip: Mainz (Gutenberg Museum); Worms
Sa 6/3    Free day
Su 6/4    Optional excursion: Wanderung auf den Drachenfels
Focus on the rise of German cultural nationalism in Weimar; the Vormärz and Revolution of 1848; the founding of the Reich, 1871.
Hagen Schulze, *Germany: A New History*, Chapters 4-5, 7
Selected poems from Heine and Goethe.
http://germanhistorydocs.gpi-dc.org/section.cfm?section_id=9&language=german [Vom Vormärz bis zur Preußischen Vorherrschaft]
http://germanhistorydocs.gpi-dc.org/section.cfm?section_id=10 [Reichsgründung: Bismarcks Deutschland]

**M 6/5**
Classroom: German Enlightenment; historical and literary context of Heine/Goethe
Receive take-home exam.

**Tu 6/6**
Field trip: Düsseldorf, Heine Museum

**W 6/7**
Classroom: Vormärz and the Revolution of 1848

**Th 6/8**
Field trip: Schloss Augustusburg; Walraff-Richartz Museum, Köln; Domdach, Köln

**F 6/9**
Classroom: Founding of the Reich
Take-home exam due.

**Sa 6/10**
Free day

**Su 6/11**
Free day – Last day to turn in site visit reports.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): International Studies

3. Course prefix, number and complete title of course: MODL 322 Culture and Civilization II

4. Catalog course description (not to exceed 50 words):
Studies in national culture and civilization from the late nineteenth century through the present. Conducted in the target language.

5. Prerequisite(s): Junior or senior classification, or instructor approval.

Cross-listed with:  
Stacked with:

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  ☐ Yes  ☑ No  If yes, from ________ to ________.
7. Is this a repeatable course?  ☐ Yes  ☑ No  If yes, this course may be taken ________ times.

8. Will this course be repeated within the same semester?  ☐ Yes  ☐ No

9. Will this course be submitted to the Core Curriculum Council?  ☐ Yes  ☑ No

10. How will this course be graded?  ☑ Grade  ☐ S/U  ☐ P/F (CLMD)

10. This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. in Modern Languages: FREN/GERM/RUSS; B.A. in International Studies

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)

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<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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</tbody>
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MODL 322 Culture and Civilization II

CIP and Fund Code: 1601010001

Admin. Unit: 1663  Academic Year: 16-17  Course Code: 0 0 3 6 3 2

Approval recommended by: Robert R. Shandley

Department Head or Program Chair (Type Name & Sign)  Date: 10/21/2015

Chair College Review Committee  10-20-15

Department Head or Program Chair (Type Name & Sign) (if cross-listed course)  Date: 10-20-15

Dean of College  Date:

Submitted to Coordinating Board by:  Chair, GC or UCC  Date:

Associate Director, Curricular Services  Date:

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14

"RECEIVED"
MODL 322 • Culture and Civilization II

Dr. Stefanie Harris  
steffanieharris@tamu.edu  
TAMU  
office: ACAD 106b  
phone: 845-2124 (INTS main office)  
Texas A&M University  
Summer 2017  
Bonn/Germany  
office: AIB, Adenauerallee 7  
phone: 0228.338839-10  
Class meeting: M-F 9:00-11:00;  
Required attendance at site visits and cultural events

Course description
Studies in national culture and civilization from the late nineteenth century through the present. Course conducted in target language: German.

Utilizing both the cultural resources of the current capital of the Federal Republic, Berlin, and its former capital, Bonn, we will trace the rise of modern Germany from the mid-19th century nationalist movements to the present.

Prerequisites
Junior or senior classification, or instructor approval.

Learning outcomes
Upon completion of the course, students will be able to:

• Define key moments in German cultural production and socio-political history from the mid-19th century nationalist movements through the present;
• Identify major cultural locations in Germany and describe their significance in the larger national and/or European context;
• Interpret and analyze primary cultural documents in the target language.

Required course materials
• Hagen Schulze, Germany: A New History
• All other course materials available through eCampus.
• All films/videos available through mediamatrix.tamu.edu.

Course requirements and evaluation

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Site visit reports (2 x 15% each)</td>
<td>30%</td>
</tr>
<tr>
<td>Response essay to reading (2 x 15% each)</td>
<td>30%</td>
</tr>
<tr>
<td>Group presentations</td>
<td>15%</td>
</tr>
<tr>
<td>Take-home exam</td>
<td>25%</td>
</tr>
</tbody>
</table>

Site visit reports (2 unique reports of sites visited June 12 – July 1) (2 x 15% = 30%):
During the program we will go on numerous excursions and site visits. Each site visit report should focus on one of the program field trips. Describe the nature of the site visit, the role of the site in German history/politics/culture, and 1-2 aspects that you found particularly compelling about the site. Reports must be written in German and should be at least 300 words in length. Reports will be submitted through eCampus and may be submitted on a rolling basis; however, all reports for GERM 322 must be submitted by July 2.

Response essay to reading:
Students will write 300 word essay in German summarizing one of the primary documents read in the class. Response essays will be submitted through eCampus and may be submitted on a rolling basis; however, all response essays for GERM 322 must be submitted by June 27.
Group presentations:
During our visit to the Museum for Modern Germany History in Bonn (June 20), students will be split into
groups of 3 to become “experts” in an assigned area of the museum, and will present on their findings to their
classmates.

Take-home exam (25%):
Exam will be a take-home essay question, for which students will submit an essay in English of at least 750
words. Exam will be submitted through eCampus.

Grading scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F

Language of the course
This study abroad experience is a unique opportunity for you to immerse yourself in the German language and
German culture. You are expected to use as much German as possible in interactions with your instructor, AIB staff,
and your classmates, both inside and outside of the classroom.

Attendance
Attendance in class and on all program excursions is mandatory (except for weekend excursions that have been
identified as optional). On days we are in the classroom, we will meet at AIB, Adenauerallee 7. Class will start
promptly at 9:00am. You will be provided a detailed schedule with departure times/places on days that we have field
trips. Plan on arriving at the departure area at least 10 minutes before the scheduled departure. We will usually travel
by bus or train, and depart from AIB or the Hauptbahnhof. The train/bus will depart promptly at the scheduled
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For each unexcused absence, your final course grade will be penalized 5%. Attendance is essential to complete the
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Room B118, or call 845-1637. For additional information, visit http://disability.tamu.edu.
Course Plan

Focus on WWI; the Weimar Republik; WWII
Hagen Schulze, Germany: A New History, Chapters 8-11
http://germanhistorydocs.ghi-dc.org/section.cfm?section_id=11 [Das Wilhelminische Kaiserreich und der Erste Weltkrieg]
http://www.dhm.de/lemo/home.html [Kaiserreich; 1. Weltkrieg; Weimarer Republik]
http://www.dhm.de/lemo/home.html [NS-Regime; II. Weltkrieg; Nachkriegsjahre; Geteiltes Deutschland]
http://germanhistorydocs.ghi-dc.org/section.cfm?section_id=13 [Deutschland unter der Herrschaft des Nationalsozialismus]

Mo 6/12  Classroom: Wilhelminian Period
Tu 6/13  Classroom: WWI
W 6/14  Classroom: Weimar Republic
Th 6/15  Field trip: Bike tour to Remagen
F 6/16  Classroom: WWII
Sa 6/17  Free day
Su 6/18  Free day

Focus on founding of Federal Republic in Bonn (1949) and post-war economic miracle; divided Germany; modern German art; the GDR.
Hagen Schulze, Germany: A New History, Chapter 12-13
http://germanhistorydocs.ghi-dc.org/section.cfm?section_id=14 [Die Besatzungszeit und die Entstehung zweier Staaten]
http://www.chronik-der-mauer.de/
http://www.dhm.de/lemo/home.html [Deutsche Einheit; Gegenwart]
http://germanhistorydocs.ghi-dc.org/section.cfm?section_id=16 [Ein Deutschland in Europa]

M 6/19  Classroom: 1945-1949; Founding of the Federal Republic in Bonn; “Economic Miracle”; The Cold War and Divided Germany
Tu 6/20  Field trip: Haus der Geschichte/Museum for Modern German History, Bonn Group presentations
W 6/21  Field trip: Max Ernst Museum, Brühl (Dada, Surrealism)
Th 6/22  Classroom: GDR Receive take-home exam
F 6/23  Field trip: Dokumentationsstätte Regierungsbunker, Ahrweiler
Sa 6/24  Free day
Su 6/25  Free day
Focus on legacies of the German past; migration to Germany; the Wende.
Hagen Schulze, Germany: A New History, Chapter 14

M 6/26  Classroom: Legacies of the German past; Migration to Germany, 1955 to present
Take-home exam due
evening: Farewell party at AIB

Tu 6/27  Classroom: From Bonn to Berlin: Germany After 1990
Last day to turn in response essays to reading.

Excursion to Eisenach and Erfurt, Dresden and Berlin.
We 6/28  Eisenach and Erfurt
Tour of the Wartburg, the place where Martin Luther lived in hiding from 1521-1522 while he translated the Bible into German. Afterwards we will visit the birthplace of Johann Sebastian Bach, the foremost Baroque composer in Germany. We end the day with a tour of Erfurt, an important crossroads of medieval Germany.

Th 6/29  Dresden
German Baroque period; destruction of the city by fire bombing in February, 1945; post-unification Germany and restoration efforts.

F 6/30  Berlin
Visit to German Historical Museum; Reichstag

Sa 7/1  Berlin
Visit to concentration camp, Sachsenhausen.

Su 7/2  Berlin
Visit to Museum Insel
Last day to turn in site visit reports.

M 7/3  Departure for US
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  ✓ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Oceanography
   OCNG 281 Seminar
3. Course prefix, number and complete title of course: OCNG 281 Seminar
4. Catalog course description (not to exceed 50 words):
   This course will provide a basic background on the research being conducted in the Department of Oceanography through seminars given by Oceanography graduate students. Students will also learn basic writing skills for ocean science through instruction and assignments during the semester.

5. Prerequisite(s): OCNG 251 or OCNG 401; OCNG 252; or permission of instructor
6. Cross-listed with: Stacked with: Cross-listed courses require the signature of both department heads.
7. Is this a variable credit course?  ☐ Yes  ✓ No If yes, from _______ to _______
8. Is this a repeatable course?  ☐ Yes  ✓ No If yes, this course may be taken _______ times.
9. Will this course be repeated within the same semester?  ☐ Yes  ✓ No
10. Will this course be submitted to the Core Curriculum Council?  ☐ Yes  ✓ No
11. How will this course be graded?  ✓ Grade  ☐ S/U  ☐ P/F (CLAS)
12. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.S. ENGS, any undergraduate major in the College of Geosciences

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls-basics-for-distance-education).

Prefix: OCNG 281 Seminar

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<th>Lab</th>
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</table>

Approval recommended by: 

Debbie Thomas  
Department Head or Program Chair  
12/5/15

Chris House  
Chair, College Review Committee  
10/11/15

Kate Miller  
Dean of College  
10/11/15

Department Head or Program Chair (Type Name & Sign)  
Date

Submitted to Coordinating Board by: 

Chair, GC or UCC  
Date

Associate Director, Curricular Services  
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 07/14
Course title and number  OCNG 281: Seminar in Communicating Oceanography
Term  Fall 2016
Meeting times and location  W 10:20-11:10

Course Description and Prerequisites

This course will provide a basic background on the research being conducted in the Department of Oceanography through seminars given by Oceanography graduate students. Students will also learn basic writing skills for ocean science through instruction and assignments during the semester.

Pre-requisites: OCNG 251 or OCNG 401; OCNG 252; or permission of instructor.

Learning Outcomes or Course Objectives

After you complete this course you will be able to:
1. Describe several areas of research being pursued within the department of Oceanography.
2. Use citation styles preferred for ocean sciences.
3. Create figure and table captions appropriate to oceanographic journals.
4. Write abstracts for scientific papers.

Instructor Information

Name  Dr. Shari A. Yvon-Lewis
Telephone number  979-458-1816
Email address  syvon-lewis@tamu.edu
Office hours  W 2:00-3:00 and F 10:15-11:15 or by appointment
Office location  O&M 412

Textbook and/or Resource Material

Any auxiliary reading material will be posted on eCampus.
Grading Policies

Grading will be based on the following: Homework assignments (60%), class participation (40%). There will be no extra credit.

A homework writing exercise will be given each week and will be due at the following class period. Writing assignments include abstracts of presentations, abstracts of selected papers, citation formats, or figure caption exercises. Feedback on the assignment will be returned to the student during the following class and prior to completing a similar type of exercise. Each type of writing assignment will be given 3-4 times during the semester to allow for practice and improvement.

<table>
<thead>
<tr>
<th>Week</th>
<th>Monday date</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Aug. 31</td>
<td>Syllabus and overview of semester; Plagiarism discussion</td>
</tr>
<tr>
<td>Week 2</td>
<td>Sep. 7</td>
<td>How to read an oceanographic paper and write and abstract</td>
</tr>
<tr>
<td>Week 3</td>
<td>Sep. 14</td>
<td>Seminar</td>
</tr>
<tr>
<td>Week 4</td>
<td>Sep. 21</td>
<td>How to write and abstract for an oral presentation</td>
</tr>
<tr>
<td>Week 5</td>
<td>Sep. 28</td>
<td>Seminar</td>
</tr>
<tr>
<td>Week 6</td>
<td>Oct. 5</td>
<td>Seminar</td>
</tr>
<tr>
<td>Week 7</td>
<td>Oct. 12</td>
<td>Seminar</td>
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<tr>
<td>Week 8</td>
<td>Oct. 19</td>
<td>Seminar</td>
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<td>Week 9</td>
<td>Oct. 26</td>
<td>Seminar</td>
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<tr>
<td>Week 10</td>
<td>Nov. 2</td>
<td>Citations; Figure/Table captions</td>
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<tr>
<td>Week 11</td>
<td>Nov. 9</td>
<td>Seminar</td>
</tr>
<tr>
<td>Week 12</td>
<td>Nov. 16</td>
<td>Seminar</td>
</tr>
<tr>
<td></td>
<td>Nov. 23</td>
<td>Thanksgiving Break-No Classes W-F</td>
</tr>
<tr>
<td>Week 13</td>
<td>Nov. 30</td>
<td>Seminar</td>
</tr>
<tr>
<td>Week 14</td>
<td>Dec. 7</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

Attendance and Make-up Policies

Excused absences will be based on Student Rule 7 (http://student-rules.tamu.edu/rule07). Make-ups will be allowed for excused absences. No make-ups will be allowed for unexcused absences.

Copyright

All materials generated for this class, which include but are not limited to syllabi, in-class materials, and eCampus materials are copyrighted. You do not have the right to redistribute
these unless I expressly grant permission. Any posted lecture notes can be printed for your sole use and cannot be redistributed.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu/](http://disability.tamu.edu/)

**Academic Integrity**

For additional information please visit: [http://aggiehonor.tamu.edu/](http://aggiehonor.tamu.edu/)

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☐ Undergraduate ☑ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Oceanography
3. Course prefix, number and complete title of course: OCNG 456 MATLAB Programming for Ocean Sciences
4. Catalog course description (not to exceed 50 words):
This course is designed to train students in computation techniques for oceanographic data processing using MATLAB. Each class will be a combination of lecture and lab on the day’s topic. Students will be given background information and an assignment that will be worked on during the allotted time. Whenever possible, the assignments will focus on the analysis of oceanographic-related data sets and real-world oceanographic applications. Students are encouraged to bring their own data sets to analyze.
5. Prerequisite(s): U3 or U4 status or approval from the instructor
Cross-listed with: \[\text{Cross-listed courses require the signature of both department heads.}\]
Stacked with: OCNG 656
6. Is this a variable credit course? ☐ Yes ☑ No
   If yes, from __________ to __________
7. Is this a repeatable course? ☐ Yes ☑ No
   If yes, this course may be taken __________ times.
8. Will this course be repeated within the same semester? ☐ Yes ☑ No
9. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No
10. How will this course be graded? ☑ Grade ☐ S/U ☐ P/F (CL/MD)
11. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

      B.S. ENGS, any undergraduate major in the College of Geosciences
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
13. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://apro.tamun.edu/resources/export-controls-export-controls-basics-for-distance-education).

Prefix | Course # | Title (excluding punctuation) |
--------|---------|-----------------------------|
OCNG 456 | MATLAB Prog for Ocean Sciences |

Lect. | Lab | Other | CHI | CIP and Fund Code | Admin. Unit | Acad. Year | HCC Code |
2.00 | 2.00 | 0.00 | 3.00 | 4006070002 | 2140 | 16 | 17 | 0 | 0 | 3 | 6 | 3 | 2 |

Approval recommended by: [Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee

Dean of College

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number: OCNG 456/656, MATLAB Programming for Ocean Sciences

Term: Spring 2016

Meeting times and location: M/W 9-11 Room 602

Course Description and Prerequisites

This course is designed to train students in computation techniques for oceanographic data processing using MATLAB. Each class will be a combination of lecture and lab on the day’s topic. Students will be given background information and an assignment that will be worked on during the allotted time. Whenever possible, the assignments will focus on the analysis of oceanographic-related data sets and real-world oceanographic applications. Students are encouraged to bring their own data sets to analyze.

Learning Outcomes or Course Objectives

Course Objectives: To provide instruction of MATLAB techniques useful to oceanographers.

Learning Outcomes: After completing this course student should be able to successfully write MATLAB scripts that load, manipulate, and visually display various large oceanographic data sets.

Instructor Information

Name: Dr. Christina L. Wiederwohl
      Instructional Assistant Professor
      Department of Oceanography

Telephone: 979-845-7191

Email address: chrissyw@tamu.edu

Office hours: TBA

Office location: 410 O&M Building, TAMU

Textbook and/or Resource Material

Required: Laptop with access to MATLAB software. This is a BYOD (Bring your own Device) course. Computers will not be provided. Matlab software is provide for free to students via software.tamu.edu. iPads also work, but require matlab via the virtual open access labs (voal.tamu.edu).

Prerequisites:

OCNG 456: U3 or U4 status or approval of instructor
OCNG 656: No prerequisites.

A survey course in Oceanography is recommended for all students, but not required.

Grading Policies

Undergraduates and Graduates: There will be a total of 11 assignments. The lowest grade will be dropped and the remaining 10 assignments reports for this course are each worth 8% of the final grade. Grades will be based on the following grading system: 90-100%=A, 80-89%=B, 70-79%=C, 60-69%=D, <60=F. Assignments are to be turned in by 5pm on Friday the week the assignment was assigned. Late assignments will not be accepted without prior arrangement before the assignment. Graduate student assignments will be more in-depth and intensive than undergraduate student assignments. There is no final exam.

Graduates: Graduate student will be given a final project at the end of the semester encompassing all skill sets learned in the course.
**Undergraduates:** Attendance: 20%, Assignments: 80%

**Graduates:** Assignments: 80%, Final Project: 20%

**Attendance Policy:**

Attendance is mandatory for this course. Make up opportunities will only be given for students with excused absences. Please refer to [http://student-rules.tamu.edu](http://student-rules.tamu.edu). Please see Part 1: Academic Rules, #7 Attendance.

**Course Topics, Calendar of Activities, Major Assignment Dates**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The art of Scientific computing, logging on</td>
</tr>
<tr>
<td>2</td>
<td>Introduction MATLAB programming: basics of programing</td>
</tr>
<tr>
<td>3</td>
<td>Introduction MATLAB programming: m-scripts, functions (Assignment 1 due)</td>
</tr>
<tr>
<td>4</td>
<td>Introduction to MATLAB programming II: debugging, loading various data formats, loops (Assignment 2 due)</td>
</tr>
<tr>
<td>5</td>
<td>Introduction to MATLAB programming III: Manipulating CTD and bottle data (Assignment 3 due)</td>
</tr>
<tr>
<td>6</td>
<td>Basics of MATLAB programming: working with vectors: times series plotting (Assignment 4 due)</td>
</tr>
<tr>
<td>7</td>
<td>Basics of MATLAB programming: matrices, scripting and command line statistics (Assignment 5 due)</td>
</tr>
<tr>
<td>8</td>
<td>Accessing data from NODC (The National Ocean Data Center) and CCHDO (CLIVAR and Carbon Hydrographic Data Office)</td>
</tr>
<tr>
<td>9</td>
<td>Introduction to Oceanographic toolboxes: seawater toolbox; calculating oceanographic variables (Assignment 6 due)</td>
</tr>
<tr>
<td>10</td>
<td>Graphical representations of oceanographic data (Assignment 7 due)</td>
</tr>
<tr>
<td>11</td>
<td>Mapping techniques (Assignment 8 due)</td>
</tr>
<tr>
<td>12</td>
<td>Gridding and contouring (Assignment 9 due)</td>
</tr>
<tr>
<td>13</td>
<td>Vertical sections (Assignment 10 due)</td>
</tr>
<tr>
<td>14</td>
<td>Semester wrap up (Assignment 11 due) Graduates: final project due.</td>
</tr>
</tbody>
</table>

**Americans with Disabilities Act (ADA)**

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**Academic Integrity**

*For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)*

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of
the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

Copyright and Plagiarism Policy

The materials used in this course are copyrighted. These materials include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless permission is expressly granted.

As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, http://student-rules.tamu.edu, under the section "Scholastic Dishonesty."
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:
   - [✓] Undergraduate
   - [ ] Graduate
   - [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   Department of Oceanography

3. Course prefix, number and complete title of course:
   OCNG 461 Advanced Oceanographic Data Analysis and Communication

4. Catalog course description (not to exceed 50 words):
   Project design and planning for oceanographers; oceanographic data organization and analysis; synthesis and interpretation of data analysis; technical report writing and presentation.

5. Prerequisite(s):
   OCNG 281, OCNG 404, OCNG 410, and GEOS 470, or permission of the instructor.

Cross-listed with:

Stacked with: OCNG 661

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?
   - [ ] Yes
   - [✓] No
   If yes, from _______ to _______.

7. Is this a repeatable course?
   - [ ] Yes
   - [✓] No
   If yes, this course may be taken _______ times.

8. Will this course be repeated within the same semester?
   - [ ] Yes
   - [✓] No

9. Will this course be submitted to the Core Curriculum Council?
   - [ ] Yes
   - [✓] No

10. How will this course be graded:
    - [✓] Grade
    - [ ] S/U
    - [ ] P/F (CLMD)

11. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

    B.S. Environmental Geoscience; B.S. in Marine Science (TAMUG); any undergraduate major in the College of Geosciences

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix Course # Title (excluding punctuation)

<table>
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<tr>
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<td>16</td>
<td>17</td>
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</tbody>
</table>

Approval recommended by:

Debbie Thomas [Signature] Date 10/15/15
Department Head or Program Chair (Type Name & Sign)

Chris Hauser [Signature] Date
Chair, College Review Committee

Kelle-Miller [Signature] Date
Dean of College

Department Head or Program Chair (Type Name & Sign)
(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or JCC

Date 10/15/2015

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number: OCNG 461 Stacked with OCNG 661: Advanced Oceanographic Data Analysis and Communication

Term: Fall 2016

Meeting times & location: Monday & Wednesday, 12:40 to 1:55 pm O&M Building, room 602

Course Description and Prerequisites

Project design and planning for oceanographers; oceanographic data organization and analysis; synthesis and interpretation of data analysis; technical report writing and presentation.

Graduate Prerequisites are: OCNG 603 Communicating Ocean Science, OCNG 604 Ocean Observing, OCNG 608 Physical Oceanography, and OCNG 657 Data Methods and Graphical Representation in Oceanography. These prerequisites are required for all students in the Master of Ocean Sciences and Technology program (MOST). Non-MOST students may take the course with permission of the instructor.

Undergraduate Prerequisites are: OCNG 281 Seminar in Communicating Ocean Science, OCNG 404 Ocean Observing, OCNG 410 Physical Oceanography, and GEOS 470 Data Analysis Methods in Geosciences.

The objective of this course is to apply oceanographic knowledge and data analysis skills to conduct an analysis of a real world oceanographic dataset. Over the course of one semester, graduate students will identify a dataset (undergraduates will be given a selected dataset), conduct a comprehensive data analysis, and produce final products in the form of a final technical report and an oral presentation.

Learning Outcomes

On completion of OCNG 461/661, students will be able to:

1. Plan, manage and organize a data analysis and writing project lasting several weeks.
2. Define a set of project objectives.
3. Explore and analyze a complex oceanographic dataset to meet defined objectives
4. Draw inferences and conclusions based on analysis of data
5. Write a comprehensive technical report.

The graduate requirements and expectations will be greater than those for the undergraduates in terms of the depth of analysis, length and detail of the final products.

Instructor Information

Name: Shari A. Yvon-Lewis
Telephone number: 979-458-1816
Email address: syvon-lewis@tamu.edu
Office hours: Monday 2:00-3:00 pm or by appointment
Office location: O&M Building 412C (enter via laboratory 412)

Textbook and/or Resource Material

There are no assigned textbooks or reading for OCNG 461/661.
Grading Policies
There will be no final or midterm exams for OCNG 461/661. Your grade will be based on coursework and attendance. Coursework during the semester will contribute to a semester long project culminating in a final technical report and an oral presentation. The following assignments will be given during the semester:

Proposal – Once the Graduate Students have identified a dataset and Undergraduate Students have been given and appropriate dataset to work on for your final technical report, you will write a short proposal outlining what your dataset is, the objectives of your project, and the analytical approaches you will use to achieve your objectives.

Exploratory data analysis and description - A report summarizing exploratory analysis of your data, addressing issues such as data quality, limitations of the dataset, summary statistics, and what advanced approaches you will use to analyze the data.

Final Technical report – This will be the major product of your project, a comprehensive analysis and write up of your dataset. Note that first drafts of different sections of the report will be due throughout the semester, giving you the opportunity to revise and refine your Final Technical Report before you hand it in for grading.

Oral presentation – You will give a 20 minute presentation at the end of the semester summarizing your data analysis project.

Grading Scale
A percentage grade will be calculated based on your total points out of the 500 possible points ((50 points attendance) + (50 points proposal) + (50 points exploratory data analysis) + (250 final technical report) + (100 presentation) = 500 points).

The grading divisions will be: A (90 -100 %), B (80 - 89 %), C (70 – 79 %), D (60 – 69 %) and F (0 – 59 %). There will be no extra credit. Grades may be curved at the end of the semester. If the grades are curved, they will only be curved upwards with the same curve applied to all students.

Attendance and Make-up Policies
The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments. See: http://student-rules.tamu.edu/rule07.

Although you will conduct much of the work for OCNG 661 on your own, class attendance is strongly encouraged to ensure that you are making sufficient progress towards your final project goals. Consequently, attendance will contribute to your final grade. If you attend > 85 % of class sessions over the semester then you will receive 50 points towards your final grade, whereas 50 points will be deducted from your final grade if you attend < 85 % of class sessions. University approved excuses or documented participation in oceanographic fieldwork or other professional development will not count as absences.

Academic Integrity
For additional information please visit: http://aggiehonor.tamu.edu

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As commonly defined, plagiarism consists of passing off as one’s own ideas, words, writing, etc., which belong to another. On accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academics, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.
Course Topics, Calendar of Activities, Major Assignment Dates

This table shows the class schedule for OCNG 461/661. In the unlikely event that major changes need to be made to the schedule you will be notified by email and by postings on eCampus as soon as possible.

**Bold text** indicates that the activity contributes directly to your final grade. *Italics* indicate when drafts of the different sections of your final report should be handed in to the instructor for comments and feedback. Based on this feedback, you will be expected to revise your writing prior to handing in your final report.

<table>
<thead>
<tr>
<th>Week</th>
<th>Introduction, technical writing, project design Identify and acquire a dataset for analysis</th>
<th>Proposal due by Friday @ 5 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td></td>
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<tr>
<td>Week 2</td>
<td>Identify and acquire a dataset for analysis</td>
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</tr>
<tr>
<td>Week 3</td>
<td>Proposal writing – scope of work, objectives and/or hypotheses, analytical approaches</td>
<td></td>
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<tr>
<td>Week 4</td>
<td>Exploratory data analysis</td>
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<tr>
<td>Week 5</td>
<td>Exploratory data analysis</td>
<td></td>
</tr>
<tr>
<td>Week 6</td>
<td>Exploratory data analysis</td>
<td><strong>Exploratory data analysis and description due by Friday @ 5 pm</strong></td>
</tr>
<tr>
<td>Week 7</td>
<td>Introduction and data analysis</td>
<td></td>
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<tr>
<td>Week 8</td>
<td>Introduction and data analysis</td>
<td><strong>Draft of final report introduction due by Friday @ 5 pm</strong></td>
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<tr>
<td>Week 9</td>
<td>Data analysis and synthesis</td>
<td><strong>Draft of final report data analysis methods section due by Friday @ 5 pm</strong></td>
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<tr>
<td>Week 10</td>
<td>Data analysis and synthesis</td>
<td></td>
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<tr>
<td>Week 11</td>
<td>Data analysis and synthesis Discussion and conclusions</td>
<td><strong>Draft of final report results section due by Friday @ 5 pm</strong></td>
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<td>Week 12</td>
<td>Discussion and conclusions</td>
<td><strong>Draft of final report discussion/conclusion section due by Friday @ 5 pm</strong></td>
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<td>Week 13</td>
<td><strong>Individual presentations during class</strong></td>
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<tr>
<td>Week 14</td>
<td><strong>Individual presentations during class</strong></td>
<td><strong>Final report due by Friday @ 5 pm</strong></td>
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</table>
Other Pertinent Course Information

You must have a NetID so you can access your email and eCampus through the Howdy portal.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu
Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type:  ✔ Undergraduate  ❌ Graduate  ❌ First Professional (DDS, M.D., JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Oceanography
3. Course prefix, number and complete title of course: OCNG 481 Seminar
4. Catalog course description (not to exceed 50 words):
   Analysis, review and critique of current research themes in oceanography based on reading assignments and seminar presentations.

5. Prerequisite(s):
   US or Non-US Status
   Cross-listed with:  Stacked with:
   Cross-listed courses require the signature of both department heads.
6. Is this a variable credit course?  ❌ Yes  ✔ No  If yes, from _____ to _____
7. Is this a repeatable course?  ✔ Yes  ❌ No  If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester?  ❌ Yes  ✔ No
8. Will this course be submitted to the Core Curriculum Council?  ❌ Yes  ✔ No
9. How will this course be graded?  ✔ Grade  ❌ S/U  ❌ P/F (CLMD)
10. This course will be:
    a.   required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b.   an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.S. ENGS, any undergraduate major in the College of Geosciences

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ✔ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ypr.tamu.edu/resoures/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    OCNG  481  Seminar

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Approval recommended by:
Debbie Thomas 10/19/15
Department Head or Program Chair (Type Name & Sign) Date

Chris Houston 10/21/15
Chair, College Body Committee Date

Dean of College 1/6/15
Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:
Chair, GC or UCC  Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number  OCNG 481: Seminar. (1-0).
Term  Fall 2016
Meeting times and location  First meeting Tuesday, 19 January at 11 AM in O&M 306.
Seminars are on Mondays at 4 PM in O&M 112

Course Description and Prerequisites

Analysis, review and critique of current research themes in oceanography based on reading assignments and seminar presentations. May be repeated four times for credit. Prerequisite: Junior or senior classification.

Learning Outcomes or Course Objectives

Summarize the main points of a seminar in a coherent abstract
Explain current oceanographic research themes
Critique oral and written work

Instructor Information

Name  Mary Jo Richardson
Telephone #  979-845-7966
Email address  mrichardson@ocean.tamu.edu
Office hours  Tuesday, Thursday 11 AM – noon and by appointment (call my office to set up an appointment)
Office location  O&M 306C

Textbook and/or Resource Material

No textbook. Reading assignments will be posted on eCampus

Grading Policies

All assignments must be submitted via the eCampus course site.

Assignments are due each Wednesday night by midnight. This is a HARD deadline. eCampus submission closes at that time.
There are TWO opportunities to make up a missed assignment. Due dates 20 April and 29 April.

Six seminar reports  65 points each  390 points
Five reading assignments  40 points each  200 points
Organizational meeting  10 points  10 points

A 540 - 600
B 480 – 539
C 420 – 479
D 360 – 421
F < 360
Course Topics, Calendar of Activities, Major Assignment Dates

In the course you will attend and report on six scientific seminars, complete five reading assignments and attend one organizational meeting.

See https://docs.google.com/document/d/1G4a889hT7ELdpkgXHHk7cYZY5Q5QwGQs8THv0sJQql4/edit

for the updated seminar list. I update the list as titles or changes are announced. (Note: this is the google doc link for fall 2015 when the course was taught as OCNG 485)

Reading assignments: Assignments will be posted on eCampus. The first assignment is on academic integrity. You must email me the results of the Writing Center’s “academic integrity” quiz at the end of the online course. Reading assignments involve instruction in scientific writing, oral and poster presentations using oceanographic topics. The reading assignments require a written submission that summarizes, compares, contrasts and/or analyzes the readings.

Seminar reports: There are six seminars that you must attend from the seminars posted on the google doc. Submit a 1-2 page (500 words or more) abstract (synopsis of the scientific content) of the seminar. Your seminar reports will be graded for scientific content, as well as grammar and spelling. Your graded assignments will be returned through eCampus weekly. Use the comments and corrections in your early in the semester seminar reports to improve your later reports.

There will be one formal class meeting, at the beginning of the semester and a meeting at the end of the semester for course evaluation.

Tuesday, 19 January, at 11:00 AM O&M 306. I will give an overview of the course and discuss the expectations of the course and give instruction on writing.

If you have any questions during the semester please stop by my office (O&M 306C), call my office (845-7966) or email me at mrichardson@ocean.tamu.edu

Always be respectful of the speaker and audience in the seminars you attend. If you can’t be on time or stay until the end of the allotted time, please, don’t attend. Please silence all electronic devices during the seminars.
## Course Schedule

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<th>Topic</th>
<th>Required Reading</th>
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<td>Introductory meeting, O&amp;M 306, 11 AM (make up meetings offered)</td>
<td>Reading assignment #1</td>
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<td>27 Jan</td>
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<td>Reading assignment #2</td>
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<td>6 Apr</td>
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<td>Make up seminar report option #1</td>
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<tr>
<td>27 Apr</td>
<td>course evaluation</td>
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</tr>
</tbody>
</table>

## Other Pertinent Course Information

### Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1537. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

### Academic Integrity

For additional information please visit [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
Texas A&M University  
Departmental Request for a New Course  
Undergraduate • Graduate • Professional  
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  
   Department of Political Science
3. Course prefix, number and complete title of course:  
   POLS 233: POLITICS AND POLICY IN THE UNITED STATES
4. Catalog course description (not to exceed 50 words):  
   Survey of institutions of American government, mass political behavior, and policy fields of significant contemporary importance.

5. Prerequisite(s):  
   None

6. Is this a variable credit course?  
   - Yes  
   - No
   If yes, from ___ to ___

7. Is this a repeatable course?  
   - Yes  
   - No
   If yes, this course may be taken ___ times.

8. Will this course be repeated within the same semester?  
   - Yes  
   - No

9. Will this course be submitted to the Core Curriculum Council?  
   - Yes  
   - No  
   - P/F (CLMD)

10. This course will be:  
   a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. POLS, B.S. POLS, B.A.-M.P.S.A. POLS & PUBLIC SERVICE ADMIN, B.S.-MPSA POLS & PUBLIC SERVICE ADMIN

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix:  
   POLS  

   Course #  
   233

   Title (excluding punctuation)  
   POLITICS AND POLICY IN THE UNITED STATES

   Lect.  
   3.00

   Lab  
   0.00

   Other  
   0.00

   SCH  
   3.00

   CIP and Fund Code  
   451662001

   Admin. Unit  
   2340

   Acad. Year  
   16

   FICE Code  
   2

   Level  
   2

   Approval recommended by:  
   John Robertson, Dir UG Programs  
   Date

   Department Head or Program Chair (Type Name & Sign)  
   Date

   Department Head or Program Chair (Type Name & Sign)  
   (If cross-listed course)

   Chair, College Review Committee  
   Date

   Dean of College  
   Date

   Submitted to Coordinating Board by:  
   Associate Director, Curricular Services  
   Date

Questions regarding this form should be directed to Sandra Williams at 845-8204 or sandra.williams@tamu.edu.
Political Science 235-500
Politics and Policy in the United States
Fall 2016

Course Information

Instructor: Joseph Daniel Ura
Associate Professor of Political Science

Email: jura@tamu.edu

Telephone: 979.845.2327

Class Meetings: MWF, 10:00-10:50AM, Allen 1008

Office Hours: MW, 1:00-3:00PM, Allen 2117

Credit Hours: 3.0

Prerequisites: POLS 206

Course Description

Survey of institutions of American government, mass political behavior, and policy fields of significant contemporary importance.

Learning Objectives

At the conclusion of this course, student should be able to:

- Explain fundamental political science concepts.
- Apply political science concepts to analyze historical, contemporary, and theoretical problems in American politics.
- Demonstrate command of major theories of decision-making in the institutions of American government, patterns and determinants of mass political behavior such as voting decisions and policy attitudes, and the terms and stakes of important policy debates.

Reading Assignments and Texts

Reading assignments for each week of class are listed in the Course Schedule section of this syllabus. With the exception of the first week’s assignments, readings should be completed prior to each week’s class meetings. All reading assignments are available on the internet or through the University Library’s e-Reserve system. You need not purchase any books for this class. The schedule of assigned readings indicates how to access each item listed. If you have trouble accessing any of the assigned materials, please let me know as soon as possible.

With a few exceptions, assigned readings are primary sources rather than pedagogical texts. They deal with complicated subjects with which you may not have much previous knowledge. Understanding the
arguments and ideas in these selections may sometime be difficult, and you may struggle to grasp what an author is trying to communicate or the importance of his or her ideas.

This is completely normal; in fact, it is unavoidable. Do not stop reading. Do not stop thinking. Do not be afraid to ask your classmates or me for help. Do not give up. A willingness to work to understand something new in spite of difficulties you encounter is one of the most valuable character traits you can have.

Grades

Student rule 10.3 explains, in part:

_The five passing grades at the undergraduate level are, A, B, C, D and S, representing varying degrees of achievement; these letters carry grade points and significance as follows:_

_Assigned by the instructor:_

- **A:** Excellent, 4 grade points per semester hour
- **B:** Good, 3 grade points per semester hour
- **C:** Satisfactory, 2 grade points per semester hour
- **D:** Passing, 1 grade point per semester hour
- **F:** Failing, no grade points, hours included in GPR
- **I:** Incomplete, no grade points (hours not included in GPR)

_Grades assigned if student is taking an undergraduate course S/U:_

- **S:** Satisfactory (C or above), hours not included in GPR
- **U:** Unsatisfactory (D or F), no grade points, hours included in GPR

Grades in this course will be assigned with those guidelines in mind. Students should expect that grades of **A** will be awarded only to those students who demonstrate especially strong command of the material covered in the course. Work that is merely good or satisfactory will be assigned grades of **B** or **C**, respectively. Work of lower quality will be rewarded with grades of **D** or **F**.

In order to translate these qualitative guidelines into quantifiable measures of performance, letter grades for the course will be assigned on the following scale based on the percentage of possible points earned:

<table>
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<tr>
<td>90-100%</td>
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</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
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</table>

Final grades are computed from your scores for two cumulative exams and a term paper. Scores for these items are weighted according to the following scale:

- **Exam 1:** 35%
- **Exam 2:** 45%
- **Term Paper:** 20%
I will distribute an information sheet one week prior to each exam with information about the exam format and some guidance about topics to emphasize as you review. I will use the class period prior to each exam to answer questions that arise during your exam preparations.

The term paper assignment requires student to prepare an original 7-8 page essay that identifies a recent, salient political event or process and explains the principal choices made by individuals and institutions in reaching a particular outcome in terms of a major scientific theory or set of theories of American politics. These analytic narratives are an opportunity for students to demonstrate command of important subject matter and to practice applying theoretical knowledge to explain observed phenomena. I will distribute a complete description of the term paper assignment during the second week of class. Term papers are due on DD/MM/YYYY.

Attendance and Make-Up Policies

Attendance *per se* is not part of this course's grading scheme. Students who are unable to attend class when an exam is given may take a makeup exam for absences excused by University rule (http://student-rules.tamu.edu/rule07). Students should make every effort to notify me in advance of an expected absence (e.g. missing an exam to observe a religious holiday) from exams and to notify me of reasons for an unexpected absence (e.g. illness) from an exam in a timely fashion.

Students with Disabilities (Americans with Disabilities Act)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disabilities Services in Room B118 of Cain Hall, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity

The Aggie Honor Code states, "An Aggie does not lie, cheat or steal, or tolerate those who do."

Students should be aware of and take seriously their obligations to perform original academic work, give appropriate credit to sources, and to use only authorized aid and materials. Please review the Aggie Honor Code and rules regarding academic conduct. These may be found online at http://aggiehonor.tamu.edu.

Classroom Conduct

Though it should go without saying, I expect students to behave appropriately in the classroom. At a minimum, this means that you should be attentive during lectures and refrain from distracting behavior. I also expect students to turn cell phones off or set them to silent during class.

Also, this course relies on student discussions. While these interactions may reveal deep disagreements about important questions of policy and politics, I expect that all students will engage in these debates and discussions in a manner that is consistent with the Student Code of Conduct and basic manners. At a minimum, this implies that you should treat one another with respect, avoid interrupting someone who is speaking, and refrain from personal attacks or impugning someone's motives.
Course Schedule

Week 1: Politics

Course Syllabus

E.E. Schattschneider, *The Semi-Sovereign People*, Chapters 1 and 3
(E-Reserve)

(E-Reserve)

Week 2: Collective Action, Coordination, Externalities, and Institutions

Mancur Olson, *The Logic of Collective Action*, Chapter 1
(E-Reserve)

Michael Munger, Orange Blossom Special: Externalities and the Coase Theorem
http://www.econlib.org/library/Columns/y2008/Mungerbees.html

William H. Riker, *The Art of Political Manipulation*, Chapters 2 and 8
(E-Reserve)

Week 3: The U.S. Constitution

*The Constitution of the United States*
http://constitutioncenter.org/constitution/full-text

(E-Reserve)

*The Federalist* 10, 51
http://avalon.law.yale.edu/subject_Menus/fed.asp

George Mason, "Objections to the Constitution"

James Madison's, *Introduction of the Bill of Rights in Congress*
http://www.usconstitution.net/madisonbor.html#Sec8

Week 4: Congress

David R. Mayhew, *Congress: The Electoral Connection*, Chapter 1
(E-Reserve)

*The Federalist* 52, 53, 62-65
http://avalon.law.yale.edu/subject_Menus/fed.asp
Week 5: The Presidency

Richard E. Neustadt, *Presidential Power and the Modern Presidents*, Chapters 1-3 (E-Reserve)

George C. Edwards, *The Strategic President*, Chapters 2 and 3 (E-Reserve)

Charles M. Cameron, *Veto Bargaining*, Chapters 2-4 (E-Reserve)

Week 6: The Bureaucracy

Kenneth J. Meier, *Representative Bureaucracy: An Empirical Analysis*  

Mathew D. McCubbins and Thomas Schwarz, *Congressional Oversight Overlooked: Police Patrols versus Fire Alarms*  

Week 7: Catch-Up and Exam 1

Week 8: The Courts

Lee Epstein and Jeffrey A. Segal, *Advice and Consent*, Chapters 3 and 4 (E-Reserve)

Jeffrey A. Segal and Harold J. Spaeth, *The Supreme Court and the Attitudinal Model Revisited*, Chapter 8 (E-Reserve)


Week 9: Public Opinion


James A. Stimson, *Tides of Consent*, Chapter 2 (E-Reserve)
Week 10: Voting and Elections

Angus Campell, Philip E. Converse, Warren E. Miller, and Donald E. Stokes, *The American Voter*, Chapter 6
(E-Reserve)

Ray C. Fair, *Predicting Presidential Elections*, Chapter 3
(E-Reserve)

Week 11: Equality and Identity

Larry M. Bartels, *Unequal Democracy*, Chapters 1 and 2
(E-Reserve)

Ta-Nehisi Coates, *The Case for Reparations*
http://www.theatlantic.com/magazine/archive/2014/06/the-case-for-reparations/361631/

Week 12: The Federal Reserve and Economic Policy

Paul Krugman, *Peddling Prosperity*, Chapters 1-3
(E-Reserve)

Edward R. Tufte, *Political Control of the Economy*, Chapters 1 and 2
(E-Reserve)

Week 13: Crime and Criminal Justice

Steven D. Levitt, *Understanding Why Crime Fell in the 1990s*

Frank R. Baumgartner, Suzanna L. de Boef, and Amber E. Boydstun, *The Decline of the Death penalty and the Discovery of Innocence*, Chapters 1 and 2
(E-Reserve)

Term Paper Due on DD/MM/YYYY

Week 14: Catch-Up and Exam 2

Please note: There is no additional exam given during the final exam period. I will use the scheduled final exam time period to supervise any remaining makeup exams.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (JD, MD, PharmD, DPA)

2. Request submitted by (Department or Program Name): Department of Information and Operations Management

3. Course prefix, number and complete title of course: SCMT 370 Introduction to Energy Industry

4. Catalog course description (not to exceed 50 words):
   History of the modern Oil & Gas Industry; ecosystem of companies driving the industry; operations involved in exploration, production, refining, trading, pipeline, and retail in bringing oil to market; accounting and economics of the industry; issues and solutions in supporting supply chain; discussion of technology innovations occurring in the industry.

5. Prerequisite(s): Admission to upper division in Mays Business School

6. Cross-listed with: ISYS 370

7. Stacked with: Cross-listed courses require the signature of both department heads.

8. Is this a variable credit course? ☑ No  If yes, from ________ to ________

9. Is this a repeatable course? ☑ No  If yes, this course may be taken ________ times.

10. Will this course be repeated within the same semester? ☑ No

11. Will this course be submitted to the Core Curriculum Council? ☑ No

12. How will this course be graded: ☑ Grade  ☐ S/U  ☐ P/F (CLMD)

13. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   BBA-SCMT; BBA-MISY

14. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

15. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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Approval recommended by:

Rich Metters: [Signature]

Department Chair or Program Chair (Type Name & Sign) Date

Rich Metters: [Signature]

Department Chair or Program Chair (Type Name & Sign) Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number  SCMT 370 - INTRODUCTION TO ENERGY INDUSTRY
Term  Spring 2017
Meeting times and location  TBA

Course Description and Prerequisites

History of the modern Oil & Gas Industry; ecosystem of companies driving the industry; operations involved in exploration, production, refining, trading, pipeline, and retail in bringing oil to market; accounting and economics of the industry; issues and solutions in supporting supply chain; discussion of technology innovations occurring in the industry.

Prerequisite: Admission to upper division in Mays Business School.

Learning Outcomes

- Identify major energy industry companies and explain their role in the Energy value chain sufficient to support job interviews.
- Discuss key opportunities and challenges facing the industry including global implications of fracturing technology and the geopolitical implications that access and control of oil has had throughout history.
- Analyze the global supply chain supporting onshore and deep offshore environments for time sensitive drilling projects along with the pipeline and transportation requirements to bring oil to retail markets.
- Discuss emerging technologies that will increase the production of oil and improve company efficiencies and safety.

Instructor Information

Name  COLLEEN WALSH, J.D.
      Director, North America Energy Industry Hub for SAP
Telephone number  832-533-0097
Email address  COLLEEN.WALSH@SAP.COM
Office hours  By Appointment
Office location  Arranged to support appointment

Textbook and/or Resource Material

Required:
Optional:


**Grading Policies**

A course average will from 90 to 100 will be an A, from 80 to 89 will be a B, from 70 to 79 will be a C, etc. The course average will be determined as follows:

- **30% Class participation**
  - 10% Presentation of Company Briefings. 2% for each of 5 company briefings.
  - 20% Attendance at field trips. If a field trip is missed, a student may submit a 5-20 page manuscript within one week of the field trip on the topic of natural gas fracking. The length of the paper is determined by the amount of the trip missed. 5 pages per trip segment.

- **40% Company Executive Briefings** (2 pages each with companies selected from an ecosystem list on the first day of class. Illustrative example/template will be provided.)

- **30% Final Exam** (Combination of multiple choice, fill in the blank, and one essay)

**Attendance and Make-up Policies**

Attendance requirements will follow Student Rule 7 (http://student-rules.tamu.edu/rule07)

**Make-up Policy:**
If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence.

The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at
https://studentactivities.tamu.edu/app/sponsauth/index
2) Death or major illness in a student's immediate family.
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4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days: Student will provide one or both of these (at instructor's discretion), within one week of the last date of the absence:
      (i.)Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu or
      (ii.) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.
9) Mandatory participation as a student-athlete in NCAA-sanctioned competition.
10) In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as deemed medically necessary by the student’s physician. Requests for excused absence related to pregnancy should be directed to the instructor.
Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

**Course Topics, Calendar of Activities, Major Assignment Dates**

This is a 15 week course with two field trips incorporated. Guest speakers will be provided, when possible, and will replace group exercises at the end of the class.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to the Energy Industry</td>
<td>Ch. 1, Optional: The Prize, Prologue</td>
</tr>
<tr>
<td>2</td>
<td>Field Trip: Bush Museum: Offshore Drilling Exhibit</td>
<td>Selected article on offshore exploration will be provided.</td>
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<tr>
<td>3</td>
<td>Exploration &amp; Production Overview</td>
<td>Ch. 3</td>
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<tr>
<td></td>
<td>1. Overview Lecture</td>
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<tr>
<td></td>
<td>2. Upstream Company Briefing</td>
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<tr>
<td></td>
<td>3. Group Exercise or Class Speaker</td>
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<tr>
<td>4</td>
<td>Life Cycle of an Oil Well</td>
<td>Ch. 4</td>
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<tr>
<td></td>
<td>1. Overview Lecture</td>
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<td></td>
<td>2. Team Exercise: Negotiating a Lease for the Oil under your suburban home</td>
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<tr>
<td></td>
<td>3. Guest Speaker <em>(Amy Morgan, Independent Landman; SDG Land Solutions, LLC)</em></td>
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<tr>
<td>5</td>
<td>Refining &amp; Marketing:</td>
<td>Ch. 12 &amp; 13</td>
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<tr>
<td></td>
<td>1. Overview Lecture</td>
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<td></td>
<td>2. Refiner or Downstream Company Briefing</td>
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<td></td>
<td>3. Class Exercise or Guest Speaker <em>(Tentatively: Mark Evans, former CIO Tesoro)</em></td>
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<tr>
<td>6</td>
<td>Energy Supply Chain</td>
<td>Ch. 10 &amp; 11</td>
</tr>
<tr>
<td></td>
<td>1. Overview Lecture</td>
<td></td>
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<tr>
<td></td>
<td>2. Oil Field Services, O&amp;G Equipment Mfg, or Pipeline Company Briefing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Class Exercise or Guest Speaker <em>(Tentatively: Christopher Suttle, Shell and Damien Lhors, Schlumberger)</em></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Field Trip to Houston: Visit FMC CIO, LNN Energy Executive Team, the Natural History Museum: Energy Exhibit, &amp; SAP Energy Team</td>
<td>Please plan on spending the full day in Houston (8 – 5 pm); car pool &amp; other logistics will be discussed during prior class.</td>
</tr>
<tr>
<td>8</td>
<td>No Class: Class Hours covered by Field Trip</td>
<td></td>
</tr>
</tbody>
</table>
9 Economics of Oil Ch. 2 & 5
   1. Lecture on the Financial Value of
      Chain for an Oil Field
   2. Class Exercise: Case Study as a CEO of an Integrated Oil & Gas company

10 Technology's Evolving Role in the Energy Industry:
   1. Digital Oil Fields
   2. Cloud Technologies impact on Energy Companies
   3. Group Discussion or Guest Speaker (Tentatively: Snehanshu Shah, SAP)

11 Natural Gas Boom Ch. 8 & 9
   1. Overview Lecture
   2. Natural Gas Ecosystem Company Briefing
   3. Class Exercise or Guest Speaker (Tentatively: Sam Cosas, Lewis Energy or Field Trip to Frac Drill site owned by Lewis Energy)

12 Overview of the Petrochemical Industry Ch. 14
   1. Overview Lecture
   2. Petrochemical Company Briefing
   3. Class Exercise or Guest Speaker (Tentatively: Laura Tibideau, Americas Styrenics)

13 The Future of the Global Oil & Gas Industry Ch. 15
   1. Horizontal Drilling & Fracturing & Implications on the World Economy & Environment
   2. Class discussion of selected topics
   3. Exam Preparation

14 No Class: Course hours covered by Houston Field Trip

15 Final Exam (TBD)
Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity

For additional information please visit: http://aggiehonor.tamu.edu

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

INFO STUDENT SERVICES COMMUNICATIONS PORTAL

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Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Department of Information and Operations Management:
   SCMT 381 Lean Business Tools and Techniques
3. Course prefix, number and complete title of course:
4. Catalog course description (not to exceed 50 words):
   In-depth and hands-on look into specific Lean tools used to solve specific tactical problems; standard work strategies, time studies, waste simulation, PFEPs, productive maintenance, visual daily management systems, and Kaizen events.

5. Prerequisite(s):
   Admission to upper-division in Mays Business School
   Cross-listed with:
   Stacked with:
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?
   - Yes
   - No
   If yes, from _______ to _______

7. Is this a repeatable course?
   - Yes
   - No
   If yes, this course may be taken _______ times.

   Will this course be repeated within the same semester?
   - Yes
   - No

8. Will this course be submitted to the Core Curriculum Council?
   - Yes
   - No

9. How will this course be graded?
   - Grade
   - S/U
   - P/F (CLMD)

10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      BBA-SCMT; BBA-MISY
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
   SCMT | 381 | Lean Business Tools & Techniques

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code
   3.00 | 0.00 | 3.00 | 3.00 | 52020300 | 1634 | 16 - 17 | 0 | 0 | 3 | 6 | 3 | 2

   Approval recommended by:
   Rich Metters
   Department Head or Program Chair (Type Name & Sign) Date

   Department Head or Program Chair (Type Name & Sign) Date
   (if cross-listed course)

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu.
   Curricular Services - 07/14
Lean Business Tools and Techniques – SCMT 381
Spring 2017
Time TBD, Location TBD

Instructor Information
Name: Ranganathan (Ranga) Arumugam
Telephone Number: 512.673.9892
Email Address: rarumugam@mays.tamu.edu
Office Hours: By appointment
Office Location: 320L

Course Description
In-depth and hands-on look into specific Lean tools used to solve specific tactical problems; standard work strategies, time studies, waste simulation, PFEPs, productive maintenance, visual daily management systems, and Kaizen events.

Prerequisite
Admission to upper-division in Mays Business School

Learning Outcomes
There are 7 critical lean tools that are widely applied in today’s business climate to solve tactical business problems. By the end of the course, the graduates will be able to apply these Lean concepts.

1. Students will be able to critically analyze any collection of processes and perform Time studies, and Layout Analysis to complete Standard work combination and Operator loading chart. Upon execution of this process the overall productivity will improve.
2. Students will be able to observe any process that requires Set up activities and will be able to apply the principles of Single Minute Exchange of Dies to reduce Set up. This enables the process to be able to produce smaller batch sizes and service an increased variety of products.
3. Students will be able to analyze any tool/machine/process and apply the principles of Total Productive Maintenance and reduce the downtime of the tool/machine/process to increase overall through put.
4. Students will be able to review ERP data and create a Plan for Every Part (PFEP). PFEP is the information back bone for any lean supply chain.
5. Students will be able to understand the theory of 5-5’s and will be able to apply the tool to improve work place organization and facilitate improved safety, quality and productivity.
6. Students will be able to understand how Visual Daily Management Systems enables sustainment of any change initiative. They will be able to create Visual metrics in the areas of Safety, Quality, on time Delivery, Inventory and Productivity.
7. Students will be able to identify the mechanics and execution of Kaizen events to rapidly improve any process.
**Course Textbooks**

Required:
1. Preparation materials will be handed out by the teacher

Optional:
2. Andy and Me, Second Edition: Crisis & Transformation on the Lean Journey by Pascal Dennis

**Class format**

Each session will be a hands on session where we would go through the theory first and then simulate it so the students get hands on experience and therefore better prepared for today’s industry.

Simulation involves either activities such as the following
- Watch video of a process (manufacturing or service) and analyze it to facilitate learning of that specific lean tool
- While one part of the class performs hands on assembly activities using LEGOS or other illustrative objects, the other part of the class observes how it relates it to lean tools

**Exams**

All tests are open book, open note. If you miss an exam you will be required to take a different exam at mutually agreeable time within one week of the scheduled exam.

**Grading**

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Exam 1</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>15%</td>
</tr>
<tr>
<td>Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Class participation</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam – Group Presentation</td>
<td>30%</td>
</tr>
</tbody>
</table>

**Class Participation Grading Rubric**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Participates in Assembly Simulations, actively participates in class discussions, arrives fully prepared to the class, exhibits good understanding of the topics discussed and asks meaningful questions, initiates discussions frequently. Name tag always prominently displayed.</td>
</tr>
<tr>
<td>4</td>
<td>Actively participates in Assembly Simulations, is a good participant in class discussions, comes prepared to the class, sometimes initiates discussion. Name tag always prominently displayed.</td>
</tr>
<tr>
<td>3</td>
<td>Demonstrates preparation for the class, participates in class discussions, does not participate in Assembly Simulations. Name tag always prominently displayed.</td>
</tr>
<tr>
<td>2</td>
<td>Passive Participant in Assembly Simulations, participates only when called on, does not come to the class prepared, does not give comments relevant to the topic</td>
</tr>
<tr>
<td>1</td>
<td>Shows total lack of interest in the class proceedings and discussions, Does not participate in Assembly Simulations</td>
</tr>
<tr>
<td>0</td>
<td>Absent for the class</td>
</tr>
</tbody>
</table>

Please go over the material prior to class. In general, lectures will not duplicate the textual material; they will supplement and embellish the text and offer alternative viewpoints.

From time to time, you may be asked to answer one or two questions in writing during class. These "quizzes" are designed to provide the instructor with feedback regarding your understanding of essential concepts and ideas. Answers will be considered in determining your final Class Participation grade. Similarly, you may be “quizzed” on your preparation of the case or reading materials.
Final course grades will be assigned as follows, based on the weighted number of points earned as a percentage of total points possible:

A  90% or above  
B  80% - 89.99%  
C  70% - 79.99%  
D  60% - 69.99%  
F  less than 59.99%

**Attendance and Make up Policy**

It is best that you arrive at least five minutes before class is scheduled to start, and that you will refrain from any behavior that might distract your classmates from getting as much out of class as possible. Examples of distracting behavior include tardiness, texting, web browsing, and side conversations.

If you are going to miss a class, please email me and the teaching assistant in advance.

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe mutually agreed between the teacher (TA) and the student.

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Weekly Class Schedule:

**Week 1**
- Team Introductions
- Syllabus discussion: The logic of content (course material and associated knowledge) flow
- Introduction to Lean
- The basics of Lean
  - Batch Production, Pull Production, Single piece flow
  - Systems approach to solving problems
- How to maximize learning in this class?

**Week 2**
- Standard work part 1
  - Introduction to Standard work
  - Time studies
  - Takt time
  - Layout analysis – Spaghetti charts

**Week 3**
- Standard work part 2
  - Standard work combination charts
  - Operator load analysis

**Week 4**
- Walk of waste exercise – 8 wastes
- Simulation – Lego Assembly Exercise to demonstrate the 8 wastes

**Week 5**
- Set up reduction using principles of Single Minute Exchange of Die
- Demonstration of set up reduction using ‘lamination of paper’ or similar set up
  - Video tape set up
  - Observation as a group to identify aspects of Set up
  - Reduce Set up

**Week 6**
- Exam 1

**Week 7**
- Plan For Every Part (PFEP)

**Week 8**
- Total Productive Maintenance
  - Preventive Maintenance
  - Predictive Maintenance
  - Breakdown Maintenance
Week 9
- Visual Daily Management Systems
  - Cascading metrics
  - Leadership responsibilities

Week 10
- Exam 2

Week 11
- 5-S
  - Select an area in the building and perform 5-S activities
  - Form groups
  - Perform walk of waste
  - Red tag exercise

Week 12
- Kaizen events – Part 1 How to select a business problem for a Kaizen event
  - R & L approach
  - Day to day operational challenges
- Kaizen events – Part 2 – Mechanism for successful Kaizen execution
  - Charter creation
  - Team formation
  - 5 day Kaizen format – details of day to day execution and agenda

Week 13
- Kaizen events – Part 2 – Mechanism for successful Kaizen execution
  - Charter creation
  - Team formation
  - 5 day Kaizen format – details of day to day execution and agenda

Week 14
- Review key elements from weeks 1 to 13 and reiterate key learning lessons
- Guidance for final team presentation

Week 15
- Final team presentations

OTHER TOPICS THAT MAY BE COVERED
The number of topics covered depends upon the pace of discovery in class. If the pace is faster than anticipated, we will also have a guest lecture by Lean Practitioner

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Departmental Request for a New Course

Undergraduate • Graduate • Professional

Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional

2. Request submitted by (Department or Program Name):
   Department of Sociology

3. Course prefix, number and complete title of course:
   SOCI 208: Introduction to Aging and Society

4. Catalog course description (not to exceed 50 words):
   Introduction to a multidisciplinary approach to the social study of aging: separating facts from stereotypes about aging, examining basic sociological, psychological, and physiological factors affecting the aging process, and exploring institutions and careers related to aging.

5. Prerequisite(s):
   None

6. Is this a variable credit course?  
   ☐ Yes  ☑ No

7. Is this a repeatable course?  
   ☐ Yes  ☑ No

   If yes, from ______ to ______

   If this course may be taken ______ times.

8. Will this course be repeated within the same semester?  
   ☐ Yes  ☑ No

9. Will this course be submitted to the Core Curriculum Council?  
   ☑ Yes  ☐ No

10. How will this course be graded:  
    ☑ Grade  ☐ S/U  ☐ P/F (CLM)

11. This course will be:
    a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
    B.A. & B.S. in SOCI, General Academics

    b. an elective for students enrolled in the following degree program(s) (e.g., M.S. in geography)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix  Course #  Title (excluding punctuation)

   SOCI  208  INTRO TO AGING & SOCIETY

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   3.00  0.00  0.00  3.00  45.1101.01  2590  16 - 17  0 0 3 6 3 2

   Approval recommended by:

   Jane Sell  9/23/2015
   Department Head or Program Chair (Type Name & Sign)  Date

   Steven M. Oberhelman  10-19-15
   Chair, College Review Committee  Date

   Pamela R. Mathews  10-20-15
   Dean of College  Date

   Submitted to Coordinating Board by:

   Chair, GC or UCC

   Date  Effective Date

   Curricular Services  07/14

Questions regarding this form should be directed to Sandra Williams at 845-8281 or sandra.williams@tamu.edu.
Syllabus

SOCI 208
Introduction to Aging and Society
Spring 2016

Instructor: Tim Woods, Ph.D.
Email: twoods@tamu.edu
Telephone: 979-458-2746
Office: Academic Building, 305c
Office Hours: Monday, Wednesday, Friday 11:15-12:15

Course descriptions: Introduction to a multidisciplinary approach to the social study of aging: separating facts from stereotypes about aging, examining basic sociological, psychological, and physiological factors affecting the aging process, and exploring institutions and careers related to aging.

Prerequisites: none.

Course Learning Outcomes: By the end of this course students should be able to:

1. Identify demographic trends related to aging and explain the importance of an aging population in America.
2. Identify racial, cultural, socioeconomic, and other differences among older adults.
3. Identify components of the economic, health care and housing choices relevant to older persons, including retirement, long-term care and health care policies.
4. Describe the utility of a multidisciplinary approach to aging.
5. Describe major social, economic and political issues involved in the aging of America.
6. Identify careers related to an aging population.

Course Materials:


Course Requirements:

Course grades will be based on two exams, two assignments, and class participation.

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<tr>
<td>F</td>
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</table>

**Exams (50%)**: There will be two equally-weighted exams. Exams will include material from the lectures, assigned readings, and class discussion. You will be examined on material in the readings that are not covered in the lectures and on material covered in the lectures that are not in the readings.

**Assignments**: There will be two assignments.

1. **“StoryCorps” Interview (10%)**

   A 3-5 minute (edited) audio-recorded interview of an individual over the age of 65. Information should highlight important details discussed in the course concerning the social context and interactions with others surrounding a particular topic of aging. See StoryCorps Interview instruction sheet posted on Ecampus and listen to examples of interviews about aging as posted at StorCorps.org

2. **Paper Project (30%)**

   Over the course of the term you will develop a “Gerontology portfolio.” The idea is to encourage students to independently explore a topic of their choice. **You are required to find your own data source(s) and analyze the data in tabular and visual form.** Your data must include some quantitative measures of multiple variables related to the aging issue you are researching. Goals of this project include: Acquire specific library research skills, learn to annotate articles, differentiate scholarly from popular media accounts, identify data sources, analyze and present data in visual form, and develop a sociologically grounded, empirical understanding of a topic in aging that matters to you!

   Use the outline below to generate your portfolio. In creating this portfolio you will learn and practice research skills, critical writing, and interpretive analysis. Although each assignment is structured, I expect you to think creatively about how to fulfill the requirements and choose the items that go in your portfolio. In your write-ups, make clear what it was about the piece that moved you to choose it rather than the many others available. The quality of the whole portfolio depends on your imaginative talents.

   Realize that I may not be familiar with the items that end up in your portfolio and this is your chance to demonstrate your own intellectual talents and capabilities. Through the portfolio you take on the role of educator and this means you must take responsibility for engaging your audience (in this case, me). Let me know what it is that interested you and why.

   **Overview of the assignments**

   1. Choose your topic or research question and write a short essay reflecting on why you chose this topic.

   2. Find 5 professional sociological articles on the topic. (See JSTOR electronic journal search).
3. Annotate your 5 articles (http://writingcenter.tamu.edu/Students/Handouts-Guides/Guides-(What-Are-You-Writing-)/Academic-Writing/Annotated-Bibliographies)

4. Find 5 published newspaper or online news source accounts of your problem as it is manifested in local community.

5. Compare the scholarly account of your problem to a popular media account.

6. Determine appropriate secondary data needed and obtain that data.

7. Outline your term paper (Introduction, Review of Literature, Theory/Hypothesis, Local/Community Data, Results, Conclusions, Discussion).

8. Develop your thinking on your aging topic into a draft of your term paper.

9. Bring together all of your work into a compelling and convincing portfolio of your work. Do not count on a “strong finish” to bring up your grade!

**In-Class Participation** (10%). Students are expected to come to every class having read the material and being prepared to actively engage in the class. Many course periods will include active engagement exercises. During the second week of class, students will sign up to be a discussion facilitator for one topic during the semester. For one class period on that topic, you will be responsible for leading the discussion on that week’s readings.

**Make-up Policy:** ☐ If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university-approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. ☐ The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://student-rules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at ☐ https://studentactivities.tamu.edu/app/sponsauth/index.
2) Death or major illness in a student’s immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student’s presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
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7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.
Drop Policy: If you wish to withdraw from this course, you are required to fill out and return the necessary forms at the Texas A&M Office of the Registrar. The Registrar’s Office has a published deadline for which the form must be signed and returned. Should you miss the deadline or fail to follow the Record’s Office procedures, you will receive a grade in the course.

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

☐ Academic Integrity Statement and Policy: “An Aggie does not lie, cheat or steal, or tolerate those who do.”

The student code of conduct operates implicitly in everything you do in this course. If you cheat during an exam or plagiarize work (published or unpublished), you will receive an “F” in the course and the case will be submitted to the Aggie Honor System Office. Students are responsible for being familiar with the Aggie Honor Code Rules and Policies at http://aggiehonors.tamu.edu

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Classroom Expectation: You are expected to behave as a respectful member of a learning community. Any student engaged in disruptive or disrespectful behavior will be asked to leave the classroom for the remainder of the class period and, if warranted, will be reported to the Dean of Student Life and the Student Conduct Office.

COURSE SCHEDULE AND READING ASSIGNMENTS

Week 1: The Future of Aging

Hooyman, Kawamoto and Kiyak, Chapter 1


The Booming Dynamics of Aging: Meeting the Challenges of the Emerging Senior Majority, Dorcas R. Hardy, CSA Journal, 2014
Week 2: Global Aging and DIVERSITY

Hooymann, Kawamoto and Kiyak, Chapter 2


Week 3: Physical Well-being: Physiological Changes and Health

Hooymann, Kawamoto and Kiyak, Chapter 3


Peripheral Arterial Disease and Exercise for Older Adults, Sally Paulson and Joohee Sanders, IDEA Fitness Journal, 2014.


Week 4: Mental and Emotional Well-Being

Hooymann, Kawamoto and Kiyak, Chapter 4


Week 5: Social Theories of Aging

Hooymann, Kawamoto and Kiyak, Chapter 5

Week 6: Family, Friends, and Other Informal Supports

Hooymann, Kawamoto and Kiyak, Chapter 6


The Arts and Health Project: Supporting Healthy Aging Through the Arts, Jenifer Milner, The Journal on
Active Aging, 2013.


Week 7: Informal and Family Caregiving

Hooyman, Kawamoto and Kiyak, Chapter 7


March 4, Midterm Exam

MARCH 14-18 SPRING BREAK, NO CLASSES

Week 8: Productive Aging: Leisure, Spirituality and Civic Engagement

Hooyman, Kawamoto and Kiyak, Chapter 8


Week 9: Loss within the Context of Aging

Hooyman, Kawamoto and Kiyak, Chapter 9

Finding Common Ground to Achieve a "Good Death", Amy Tan and Donna Manca, BMC Family Practice, 2013

Palliative Care: A Paradigm of Care Responsive to the Demands for Health Care Reform in America, Deborah Witt Sherman and Jooyoung Cheon, Nursing Economics, 2012

Week 10: Economic Well-being: Retirement, Employment and Poverty

Hooyman, Kawamoto and Kiyak, Chapter 10

Live for Today, Seve for Tomorrow, Carla Fried, AARP Magazine 2011/2012


**Week 11:** Community Well-Being: Living Arrangements and Social Interactions

Hooyman, Kawamoto and Kiyak, Chapter 11


**Week 12:** Enhancing Older Adults’ Well-being through Technology

Hooyman, Kawamoto and Kiyak, Chapter 12

Older Adults and Technology Use, Aaron Smith, Pew Research Internet, 2014.

Healthy Aging in the 22nd Century, Marta M. Keane, The Futurist 2014

**Week 13:** Policies to Promote Older Adults’ Well-Being

Hooyman, Kawamoto and Kiyak, Chapter 13

Aging Texas Well website  [http://www.dads.state.tx.us/services/agingtexaswell/](http://www.dads.state.tx.us/services/agingtexaswell/)


**Week 14:** Careers in Aging

Hooyman, Kawamoto and Kiyak, Chapter 14

May 3, Last Day of Class, Paper Project Due in Final Form

Final Exam, see final exam calendar:  [http://registrar.tamu.edu/General/FinalSchedule.aspx#0-Spring2016](http://registrar.tamu.edu/General/FinalSchedule.aspx#0-Spring2016)
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DDS, MD, JD, PharmD, DTM)

2. Request submitted by (Department or Program Name):
   - Department of Sociology

3. Course prefix, number and complete title of course:
   - SOCI 308: Community Issues in Aging

4. Catalog course description (not to exceed 50 words):
   Detailed exploration of social forces impacting the elderly and their families at the community level; the impact of demographic, cultural, organizational, and social factors on a community's response to an increasingly aging population; and the application of this knowledge through volunteer collaboration with a community nonprofit organization serving the elderly.

5. Prerequisite(s):
   - Junior or Senior classification or approval of instructor
   - Cross-listed with:
   - Stacked with:
   - Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  □ Yes  □ No
   If yes, from ______ to ______

7. Is this a repeatable course?  □ Yes  □ No
   If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester?  □ Yes  □ No

8. Will this course be submitted to the Core Curriculum Council?  □ Yes  □ No

9. How will this course be graded?  □ Grade  □ S/U  □ P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
   B.A. & B.S. in SOCI, General Academics

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.

12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    SOCI  308  COMMUNITY ISSUES IN AGING

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Approval recommended by:

Jane Sell  9/23/2015
Department Head or Program Chair (Type Name & Sign)  Date

Steven M. Oberhelman  10/19/15
Chair, College Review Committee  Date

Pamela R. Matthews  10/20/15
Dean of College  Date

Department Head or Program Chair (Type Name & Sign)  Date
(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.william@tamu.edu
Curricular Services – 07/14
Instructor: Tim Woods, Ph.D.
Email: twoods@tamu.edu
Telephone: 979-458-2746
Office: Academic Building, 305e
Office Hours: Tues and Thurs 2:00-3:00 pm, Wed 8:00-10:00am, and by appointment

**Course descriptions:** Detailed exploration of social forces impacting the elderly and their families at the community level; the impact of demographic, cultural, organizational and social factors on a community’s response to an increasingly aging population; and the application of this knowledge through volunteer collaboration with a community nonprofit organization serving the elderly.

**Prerequisites:** Junior or Senior classification or approval of instructor.

**Course Learning Outcomes:** By the end of this course students should be able to:

1. Define community and identify and describe the changing demographic and social nature of aging in communities.
2. Identify and explain the basic assumptions of the medical, psychological, and sociological approaches/theoretical models of aging.
3. Explain how social roles change with age and the how community/societal institutions constrain and enable those roles.
4. Describe social class/gender/race/ethnicity and other differences among older adults in our community and explain how these get manifested at the local community level.
5. Identify social issues impacting elderly in our community and critically assess information about those issues orally, in writing, and using data.

**Course Materials:**

Readings online via TAMU library or via weblinks provided.

**Course Requirements:**

Course grades will be based on two exams, two assignments, and class participation.

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<th>Component</th>
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Course letter grades will be based on the following percentages.

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**Exams (40%)**: There will be two equally-weighted exams. Exams will include material from the lectures, assigned readings, and class discussion. You will be examined on material in the readings that are not covered in the lectures and on material covered in the lectures that are not in the readings.

**Assignments**: There will be two assignments.

1. **StoryCorps Interview (10%)**: A 3-5 minute (edited) audio-recorded interview of an ADULT over the age of 65. Information should highlight important details discussed in the course concerning the social context and interactions with others surrounding a particular topic of aging. See StoryCorps Interview instruction sheet posted on Ecampus and listen to examples of interviews about aging as posted at StorCorps.org (Due October 29)

2. **Community Service-Learning Project (40%)**: Students will integrate cognitive classroom learning with community learning through a service-learning project with a local community service agency. The service project will require at least 15 hours of service over the semester and the keeping of a portfolio that documents your service and explains how the service is tied to course material. The portfolio is due in its final form on the date indicated in the schedule below. The service-learning project will contribute real life insight and experience to the issues discussed in the course.

Service-learning includes service activities that help meet important community needs and structured educational components that challenge participants to think critically about and learn from their experiences. Engaging in a service-learning activity will help students relate real life experience to sociological issues encountered in the course. It will provide opportunity to do significant community service and to develop a sense of civic responsibility.

More specifically, the service-learning project for this class entails: **A service activity requiring a minimum 15 hours in a service agency and the writing of a service-learning portfolio.** Service-learning activities are service activities that address a human social need. **Evangelistic or church-specific activities do meet the objectives for this course.** You must complete 15 hours of volunteer prior to the due date for the portfolio and all service-hours must be completed at the approved organization and within the dates of the semester in which you are enrolled in the course. Service activities must:

1. Provide opportunity to engage an issue addressed in the class such as housing, retirement, family, poverty, education, religion, disability, race, gender, etc.
2. Provide opportunity to relate to people different from the student.
3. Provide opportunity to do meaningful service.
4. Be scheduled on a regular on-going basis throughout the semester.
5. Be conducted in an established, on-going nonprofit human service organization.

The Service-Learning Portfolio: Each student will keep a portfolio documenting their service experience over the semester. This portfolio includes all paperwork, pictures, projects etc. that help document your service as well as a written description of your service experience and an explanation of how your experience/project relates to specific course material. Portfolios must be type-written and submitted on the due date (Dec 8th at the beginning of class). No Exceptions. I will not accept late portfolios.

In-Class Participation (10%). Students are expected to come to every class having read the material and being prepared to actively engage in the class. Many course periods will include active engagement exercises. During the second week of class, students will sign up to be a discussion facilitator for one topic during the semester. For one class period on that topic, you will be responsible for leading the discussion on that week’s readings.

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you believe you have a disability requiring an accommodation, please contact Disability Services, Student Services @ White Creek, telephone 845-1637. For additional information visit http://disability.tamu.edu.

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COURSE SCHEDULE AND READING ASSIGNMENTS

Week 1: Introduction and Demographics


Aging Texas Well website http://www.dads.state.tx.us/services/agingtexaswell/

Week 2: Biology of Aging

**Week 3: Psychology of Aging**


**Week 4: Social Theories of Aging**


**Week 5: Social Interaction/Isolation and Intergenerational Interaction**


**Week 6-7: Diversity**


Midterm Exam, October 15th

Week 8: Family Relationships


Week 9: Health


Week 10: Religion


**Week 11: Economics**


**Week 12: Care Arrangements and Housing**


**Week 13: Social Policy and Politics**


**Week 14: Death and Dying**


**Research Proposal Due:** December 8

**Final Exam:** Wednesday, December 16th, 8:00-10:00 am.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:

1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Sociology

3. Course prefix, number and complete title of course: SOCI 324: Social Change

4. Catalog course description (not to exceed 50 words):
Survey of major changes in American and Western society, the forces underlying change and tensions caused by social change.

5. Prerequisite(s):

<table>
<thead>
<tr>
<th>Junior or Senior Classification or Approval of Instructor</th>
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<tr>
<td>Cross-listed with:</td>
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<td>Stacked with: Cross-listed courses require the signature of both department heads.</td>
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</tbody>
</table>

6. Is this a variable credit course? [✓] No

If yes, from ______ to ______

7. Is this a repeatable course? [✓] No

If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? [ ] Yes [✓] No

9. Will this course be submitted to the Core Curriculum Council? [ ] Yes [✓] No

10. How will this course be graded: [✓] Grade [ ] S/U [ ] P/F (CLMD)

This course will be:

a. [✓] required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. [ ] an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. & B.S. in Sociology, General Academics

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. [✓] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix: SOCI 324 Title (excluding punctuation): SOCIAL CHANGE

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<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
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</table>

Approval recommended by: [✓] 0001

Jane Sell
Department Head or Program Chair (Type Name & Sign) 0-12-15

Steven M. Oberholser
Chair, College Review Committee

Date

Pamela R. Mathews
Dean of College

10-20-15

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
Dr. Heili Pals
E-mail: hpals@tamu.edu
Office Hours: Th 11am – noon
or by appointment
Office: 325B Academic Building

Course Description:
Survey of major changes in American and Western society, the forces underlying changes and tensions caused by social change.

The questions we try to answer in this course:
- What is social change?
- What causes social change?
- What are the consequences of social change?

We focus on different social changes, such as demographic change, cultural change, social movements and collective action, transitional societies, and changes due to technological advances. The course will focus both on changes in the US and elsewhere: you will get a chance to think about social change both in local and in global terms.

Learning Outcomes
The student at the end of the course will be able to:
- identify different sociological perspectives of social change,
- recognize the diversity of social changes in the society,
- understand the social change that has taken place in US society during the past century,
- critically analyze social change in the historical context,
- evaluate data and information sources about social change and be able to use these in your own analyses.

Prerequisites: Junior or Senior Classification or Approval of Instructor
Students enrolled in this course will be required:
- to use the Internet to find and retrieve demographic and other relevant information and to download occasional articles related to social change.
- to use a spreadsheet program (e.g., Excel) to prepare tables and graphs of change data. I will give you a brief introduction to Excel, but prior experience with Excel or another spreadsheet program will be helpful.
Main Texts:
- Throughout the course, additional articles, publications, and web sources will be posted under each module.

Requirements and Evaluation:
1. Intro to your country. Due by the end of Module 1 (6% of final grade).
2. Expert Panel Submission (23% of final grade). In Module 0 you are required to sign up to appear on the expert panel once during the semester. While on the expert panel, you have an earlier deadline (Sunday after opening the module) to submit your expert panel work. What are you required to do on expert panel? Generally, you are supposed to act as a co-teacher. You will be explaining the main concepts and giving examples (other than the textbook examples) using your own country for each concept. The more specific requirements for each expert panel will be distributed in the beginning of each module. As an expert on expert panel, your work will be publicly graded (i.e., other students will evaluate how well you performed as an expert. Your final grade for the expert panel will be determined as a combination of student evaluation and professor's evaluation.
3. Midterm & Final: These are both write-ups about analysis of social change in your country you signed up for. More details for both are distributed later in the course. These both require individual work (no group work allowed). The midterm is due on March 1 at 5pm; the Final is due on April 26 at 5pm. Both midterm and final are 23% of your final grade.
4. Quizzes: Each Module in the course ends with a short online quiz (7 total), each worth 2% of your final grade. These quizzes are multiple choice; conducted online on class website.
5. Reading and evaluating expert panel presentation: Each module you are asked to rate at least 5 expert panel submissions and submit the Expert Panel Evaluation Report where you justify your rating. Expert panel evaluation report is worth a total of 6% of your final grade (1% for each module).
6. Participation in discussions: worth 5% of your final grade.

Basis for final grade:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Final Grade</th>
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</thead>
<tbody>
<tr>
<td>Intro to your selected country</td>
<td>6%</td>
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<tr>
<td>Expert panel (once during semester)</td>
<td>23%</td>
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<tr>
<td>Midterm</td>
<td>23%</td>
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<tr>
<td>Final</td>
<td>23%</td>
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<tr>
<td>Quizzes (7 total) – 2% each</td>
<td>14%</td>
</tr>
<tr>
<td>Reading and evaluating Expert Panel submissions</td>
<td>6%</td>
</tr>
<tr>
<td>Participation in discussions</td>
<td>5%</td>
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<td></td>
<td>100%</td>
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Grading Scale (%)

<table>
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<tbody>
<tr>
<td>90-100</td>
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<tr>
<td>80-89</td>
<td>B</td>
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<td>70-79</td>
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<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>0 - 59</td>
<td>F</td>
</tr>
</tbody>
</table>

**Grading Policies**

Incompletes are given only when emergencies occur late in the semester, such as serious illness of the student, or death in the immediate family. Students must provide detailed documentation of such an emergency. Incompletes are not given to students who are doing poorly and ask for more time or a “second chance,” nor are they given to students who wait until late in the semester to discuss with me issues that have impacted their performance.

Make up exams will only be provided to students with university excused absences as defined at: http://student-rules.tamu.edu/rule07, or due to illness with a signed note from a medical doctor.

There are no make-ups for the quizzes in this course for un-excused absences (since you have more than one day to take the quiz). Country introduction, midterm, final, and the expert panel work turned in late will be assessed a penalty: half a letter grade for each day late.

**Americans with Disabilities Act (ADA):**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

**Academic Integrity**

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit:  www.tamu.edu/aggiehonor
In this course we utilize turnitin.com, an automated system which instructors can use to quickly and easily compare each student's assignment with billions of web sites, as well as an enormous database of student papers that grows with each submission. For a more detailed look at this process, visit http://www.turnitin.com.

**Warnings**

(included as recommended by the Faculty Senate’s Executive Committee):

1) The handouts used in this course are copyrighted. “Handouts” includes all materials generated for this class, which include, but are not limited to, syllabi, exams, computer printouts, in-class materials, sample tests, assignments, slides, etc. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. This course may also contain additional copyright protected materials such as audio or video clips, images, text materials, etc. These items are being used with regard to the Fair Use doctrine in order to enhance the learning environment. Please do not copy, duplicate, download or distribute these items. The use of these materials is strictly reserved for this online classroom environment and your use only. All copyright materials are credited to the copyright holder.

2) As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as you own, even if you have the permission of that person. Plagiarism destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest edition of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty.”

**Topic and Assignment Schedule (Tentative):**
The course consists of six modules (+ Module 0). When you are on the expert panel (once during the semester) note the deadline for the expert panel. I strongly suggest starting with assignments early as many of them require a lot of work. The quizzes and expert panel evaluation reports are always due by the time module closes (Friday, 5pm). Also, you are expected to participate in discussions on the materials presented (see instructions on this under each module). The following timeline is approximate and subject to change. Detailed instructions on what to read and watch are given in each module under Course Content site (it is likely you'll be asked to watch at least one movie or clip in each module).

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 19th -</td>
<td><strong>Course opens; Read Module 0</strong></td>
<td>Syllabus</td>
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<tr>
<td>Jan 22nd,</td>
<td>Assignments:</td>
<td>Class protocols</td>
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<tr>
<td>5pm</td>
<td>• Select your country</td>
<td>Class intro (video)</td>
</tr>
<tr>
<td></td>
<td>• Sign up for expert panel</td>
<td>Professor intro (video)</td>
</tr>
<tr>
<td></td>
<td>• Read, rate, and submit an evaluation</td>
<td>Help materials</td>
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<tr>
<td></td>
<td>report on the example expert panel entry</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>WK 1</td>
<td>• Take the quiz</td>
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</tr>
<tr>
<td>Date Range</td>
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<tr>
<td>Jan 25&lt;sup&gt;th&lt;/sup&gt; – Feb 5&lt;sup&gt;th&lt;/sup&gt;, 5pm</td>
<td>Module 1: Theoretical perspectives</td>
<td>Assignments: • Expert panel (deadline: midnight, Jan 31) • Submit your intro to your country • Read, rate, and submit an evaluation report on at least 5 expert panel submissions • Take the quiz • Module closes at 5pm on Feb 5th</td>
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<tr>
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<td>Additional reading</td>
</tr>
<tr>
<td>Feb 8&lt;sup&gt;th&lt;/sup&gt; – Feb 19&lt;sup&gt;th&lt;/sup&gt;, 5pm</td>
<td>Module 2: Demographic change</td>
<td>Assignments: • Expert panel (deadline: midnight Feb 14) • Read, rate, and submit an evaluation report on at least 5 expert panel submissions • Take the quiz • Module closes at 5pm on Feb 19th</td>
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<tr>
<td></td>
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<td>Additional reading</td>
</tr>
<tr>
<td>Feb 22&lt;sup&gt;nd&lt;/sup&gt; – Mar 4&lt;sup&gt;th&lt;/sup&gt;, 5pm</td>
<td>Module 3: Culture &amp; structure</td>
<td>Assignments: • Expert panel (deadline: midnight Feb 28) • Read, rate, and submit an evaluation report on at least 5 expert panel submissions • Take the quiz • Module closes at 5pm on Mar 4th</td>
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<td>Additional reading</td>
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<tr>
<td>Mar 11&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Midterm Essay due</td>
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<td>Mar 14&lt;sup&gt;th&lt;/sup&gt; – Mar 18&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Spring Break</td>
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<tr>
<td>Mar 21&lt;sup&gt;st&lt;/sup&gt; – Apr 1&lt;sup&gt;st&lt;/sup&gt;, 5pm</td>
<td>Module 4: Technology</td>
<td>Assignments: • Expert panel (deadline: midnight March 27) • Read, rate, and submit an evaluation report on at least 5 expert panel submissions • Take the quiz • Module closes at 5pm on April 1st</td>
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<tr>
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<td>Additional reading</td>
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<tr>
<td>Apr 4&lt;sup&gt;th&lt;/sup&gt; – Apr 15&lt;sup&gt;th&lt;/sup&gt;, 5pm</td>
<td>Module 5: Social movements</td>
<td>Assignments: • Ch 7, Ch 8</td>
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</table>
| WK 11-12 | • Expert panel (deadline: midnight April 10)  
• Read, rate, and submit an evaluation report on at least 5 expert panel submissions  
• Take the quiz  
• Module closes at 5pm on April 15th | • Ch 9  
Doug McAdam  
Social psychology |
|---|---|
| Apr 18th – Apr 29th, 5pm | Module 6: Planned change  
Assignments:  
• Expert panel (deadline: midnight April 24)  
• Read, rate, and submit an evaluation report on at least 5 expert panel submissions  
• Take the quiz  
• Module closes at 5pm on April 29th | Textbook:  
• Ch 11  
• Ch 14  
• Epilogue  
Additional reading |
| WK 13-14 | Final Essay Due |

**Final Notes:** This syllabus may be modified at the discretion of the instructor. Changes will be discussed via eCampus site.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Sociology

3. Course prefix, number and complete title of course:  SOCI 338: Latino Immigration

4. Catalog course description (not to exceed 50 words):
Theoretical and empirical examinations of the causes, processes, and impacts of Latin American immigration to the U.S.; Latino/a immigrant experience in the U.S.; effects of immigration on sending and receiving communities

5. Prerequisite(s):
Junior or senior classification, or approval of the instructor

Cross-listed with:  
Stacked with:  
Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  ☐ Yes  ☑ No  If yes, from _______ to _______

7. Is this a repeatable course?  ☐ Yes  ☑ No  If yes, this course may be taken _______ times.

Will this course be repeated within the same semester?  ☐ Yes  ☑ No

8. Will this course be submitted to the Core Curriculum Council?  ☑ Yes  ☐ No

9. How will this course be graded?  ☑ Grade  ☐ S/U  ☐ P/F (CLMD)

10. This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A. & B.S. in Sociology, General Academics

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

11. Prefix  Course #  Title (excluding punctuation)

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<th>SOCI</th>
<th>338</th>
<th>Latino Immigration</th>
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<td>Other</td>
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</tbody>
</table>

Approval recommended by:

Jane Sell
Department Head or Program Chair (Type Name & Sign)  Date  0-12-15

Steven M. Oberheim
Chair, College Review Committee  Date

Pamela Matthews
Dean of College  Date  10-20-15

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
Latino Immigration
SOCI 338

Instructor: Dr. Nancy Plankey---Videla
Office: 429B Academic Building
Phone: (979) 845---5483
Email: plankeyvidela@tamu.edu
Office Hours: Tuesdays 1:30 ---3:00 p.m. and by appointment and Google hangouts

PREREQUISITES: Junior or senior classification, or approval of instructor

COURSE DESCRIPTION:
Theoretical and empirical examinations of the causes, processes, and impacts of Latin American immigration to
the U.S.; Latino/a immigrant experience in the U.S.; effects of immigration on sending and receiving communities.

“We are a nation of immigrants” is a common phrase used to describe the U.S. But what does that mean?
This course will examine migration primarily through the case of the U.S. by scrutinizing the way
immigration policy developed historically to include and exclude specific racial and ethnic groups at
different points in time. The course is designed to provide theoretical and empirical background to
understand current debates on immigration, which have focused almost exclusively on Latin American
migration. Thus, we will examine theories, patterns, causes, and effects of authorized and unauthorized
migration to the U.S. with a focus on Latin America. Comparative studies of immigration in Europe, Africa,
and Asia will be used to gain a clearer understanding of immigration.

Learning Outcomes:

By the end of this course you should be able to:
• Explain the history of immigration policy in the U.S.
• Describe patterns of migration to the U.S. from Latin America
• Analyze the contemporary causes and consequences of authorized and unauthorized migration to
  the U.S.

COURSE FORMAT:
I believe learning is a shared experience. The course will combine lecture, discussion and small group
dynamics. To this end, I expect you to participate in class by being prepared to discuss readings, asking and
answering questions, breaking into small groups for discussion and partaking in different group activities.

We meet twice a week and each meeting will combine lecture and discussion of topics covered in the
readings. We will also watch several films related to the course material. Discussion is key to understanding
the course material. Attendance and participation will be graded.

REQUIREMENTS AND EXPECTATIONS:
I expect students to attend class, do the assigned reading, and participate in class discussions. Your final
grade will be based on exams, two written assignment, and attendance/participation.

COURSE MATERIALS:
We will read a combination of articles and books in this course. The selected chapters and articles will be
available online through http://ecampus.tamu.edu/. Books are available through the MSC Barnes & Noble bookstore, though you are welcome to buy them elsewhere used or in eBook form. The books are also on reserve at Evans Library and are available electronically through the library system. A schedule of readings can be found at the end of the syllabus. This syllabus contains all the due dates for assignments and readings and will be followed closely, although I reserve the right to change it under special circumstances.

Required Books

BOTH BOOKS ARE ELECTRONICALLY AVAILABLE THROUGH THE TAMU LIBRARY


### COURSE GRADING:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Oral History</td>
<td>25%</td>
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<tr>
<td>First Exam</td>
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<td>Second Exam</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
</tbody>
</table>

### GRADING SCALE:

- A 90---100
- B 80---89
- C 70---79
- D 60---69
- F 59 and below
Oral History Assignment – 25% of grade
There will be one essay assignment that will help you put into practice what we learn in class through lectures, films, and activities. The essay assignment will be an oral history exercise. Handouts will be passed out in class and further explained. In brief, you will interview ONE migrant to explore themes examined in class. The assignment will consist in taping, with the person’s consent, the interview; then transcribing and analyzing the interview to examine the reasons and process of migration, the barriers and opportunity in country of reception, and the ties with country of origin.

A transcription of interview is due October 8 (worth 5% of grade)
A hard copy of the oral history analysis is due [date] (worth 20% of grade) at the beginning of class (5 pages, typed, double-spaced, 12--font Times New Roman or Calibri, 1 inch margins). Submit the paper to TurnItIn on eCampus.

Grading Rubric for Oral History Analysis:
A = Excellent analysis demonstrating an outstanding grounding in all course material
B = Above average analysis but missing some key points
C = Limited analysis, seriously lacking major points
D = Below average
F = Failure to produce even a below average essay

Late papers will not be accepted, except in the case of DOCUMENTED, UNIVERSITY---EXCUSED ABSENCES (see student rules http://student--rules.tamu.edu/rule07). If you do not turn in an assignment, you must contact me by email WITHIN 24 HOURS of missing the deadline or you will receive a grade of zero. Late assignments without an excused absence will be docked 10 points per class. Paper assignments must be well written. I will grade for style, grammar, and content. I strongly suggest you visit the writing center (http://writingcenter.tamu.edu) to receive feedback on how to improve your writing.

Plagiarism will not be tolerated. You may not use someone else’s written words without citing them. If you are not sure if you should cite an author, cite it. If you plagiarize, you will receive a grade of zero. All assignments need to be turn into TurnItIn on the eCampus website as well as in hard copy on the day they are due.

Three Exams – 60% of grade
There will be three non-cumulative exams in this course. The first two are in-class exams consisting of short identification and multiple-choice. The third will take place at the time scheduled for the final exam, [date]. All exams will be based on lectures, readings, and discussions. Since the course is organized around two books and articles, you CANNOT earn a good grade in this class without doing the reading.

There will be no make-up exams unless previously arranged with the professor or in the case of a University approved and documented excuse (see student rules http://student--rules.tamu.edu/rule07). Make--up exams will be closed book essay exams.

Exam 1 [date]
Exam 2 [date]
Exam 3 [date]
CLASS PARTICIPATION — 10% of grade
You are responsible for your own learning but your actions affect the entire class. Active participation in class discussion is vital to the shared learning experience. For this to work, everyone must come prepared to class, having done the readings and come prepared to discuss the week's readings in depth. During each lecture students will be quizzed on course material, especially on the day's readings.

Active participation is premised on respect. Being prepared for class, listening attentively, challenging ideas and not individuals—are all markers of respect in a community of learning. Thus I expect everyone to attend class and value each other's ideas.

Two percent of the participation grade will be a reflection piece on one of two films on immigrant labor you will watch by [date]. The films will be available on mediamatrix. Write 3 page (typed, double-spaced, 12--font Times New Roman or Calibri, 1 inch margins) reflection on the following questions: What theory of migration best captures the points made by the documentary? What are the barriers and opportunities experienced by the individuals discussed? What immigration reform would you propose that responds to the needs of both employers and workers? Submit essay via TurnItIn by XXXXX.

ATTENDANCE — 5% of grade
Attendance is required. It is an important element of creating a community of learning. Let me warn you that it is almost impossible to pass the course if you miss many classes. I will be taking attendance every class through the seating chart; it is your responsibility to make sure I marked you present if you arrive late. I will begin to subtract grade points after two university unexcused absences. You will be permitted to miss two classes. After that your grade will be docked for each unexcused absence. For more information on what is considered a university excused absence, go to http://student--rules.tamu.edu/rule07.

Lectures and discussion on the readings will not be posted. It is your responsibility to obtain notes from a classmate if you are absent. Once you have obtained notes, I am glad to meet with you during office hours or an alternate time if you can make it to office hours to discuss any questions you have on lecture. Lastly, please come to class on time and do not leave early out of respect for your fellow students and myself. All cell phones should be turned off.

EXTRA CREDIT
Students have the option of attending talks around campus approved by the professor or watch a pre-approved documentary on mediamatrix. To earn one point of extra credit added to the final grade you must attend an event/watch documentary and write a two--page critical reflection essay summarizing the main points and making connections with larger sociological issues discussed in class. This means that if a student earns a final grade of 89, the extra credit will bump the student to an A.

A NOTE ON ACADEMIC DISHONESTY
As members of a community of learning, it is imperative that all students be aware of and abide by the rules of academic integrity. They can be downloaded at http://student--rules.tamu.edu/rule20.htm. Furthermore, as of September 1, 2004 the Aggie Honor Code will be effect (aggiehonor.tamu.edu). In short, they state that students and faculty will refuse to participate in or tolerate plagiarism, cheating or falsification of information. Knowledge is built upon the work of others—that work must be recognized appropriately. If you use an idea, paraphrased sentences or words of another person(s) you must cite them. When in doubt, cite the work. It is preferable to over--cite than to take credit for someone else's work.

The handouts in the course are copyrighted. Handouts include all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in---class materials, power points, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the
right to copy the handouts, unless I grant permission. Classes CANNOT BE AUDIO TAPED without my express permission.

Plagiarism and other forms of academic dishonesty will not be tolerated. Suspected cases will be sent to the Aggie Honor System Office where an investigation will proceed. The consequences of academic dishonesty range from grade sanctions to expulsion from the University. This is a very serious matter.

"An Aggie does not lie, cheat or steal, or tolerate those who do."

A NOTE ON DISABILITY
The Americans with Disabilities Act (ADA) is a federal anti—discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845—1637. For additional information visit http://disability.tamu.edu

Class Readings/Assignments

Week 1: Thinking and Studying Immigration

Week 2: Social and Economic Theories of Migration

Week 3: The Socio—legal Construction of “Illegal Aliens”

Week 4: The Aftermath of 1965 Immigration Policy

Week 5—8
Weeks 9: U.S. Foreign Policy and Migration from Central America and Caribbean


Weeks 10: Debating Assimilation and Segmented Assimilation


Week 11: Political Incorporation and Exclusion


Week 12---14: Illegality and Political Activism: Families, Students, and Workers


FINAL EXAM
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic — SOCI 338</th>
<th>Reading Assignment by Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>T: Introduction to Course&lt;br&gt;Th: Thinking and Studying Immigration</td>
<td>Zorg and Batalova link</td>
</tr>
<tr>
<td>Week 2</td>
<td>T &amp; Th: Social and Economic Theories of Migration</td>
<td>EC: Castles, Hass &amp; Miller, Chapters 1---2</td>
</tr>
<tr>
<td>Week 4</td>
<td>T and Th: The Unintended Consequences of 1965 Immigration Policy; discuss Oral History Project</td>
<td>EC: Massey &amp; Pren</td>
</tr>
<tr>
<td>Week 5</td>
<td>T: EXAM 1&lt;br&gt;Th: Migration in the Americas and Understandings of Race</td>
<td>Hernández---León, Chapters 1</td>
</tr>
<tr>
<td>Week 6</td>
<td>T: Mexican Migration to the U.S.&lt;br&gt;Th: Film: Harvest of Loneliness</td>
<td>Hernández---León, Chapters 2---3</td>
</tr>
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<td><strong>TRANSCRIPTION DUE</strong></td>
</tr>
<tr>
<td>Week 7</td>
<td>T: Continued Migration and New Destinations&lt;br&gt;Th: Remittances and Transnationalism</td>
<td>Hernández---León, Chapters 4---5</td>
</tr>
<tr>
<td>Week 8</td>
<td>T: The Monterrey---Houston Connection&lt;br&gt;TH: EXAM 2</td>
<td>Hernández---León, Chapter 6</td>
</tr>
<tr>
<td>Week 9</td>
<td>T: Film: Harvest of Empire&lt;br&gt;Th: US Foreign Policy and Migration from Central America and Caribbean</td>
<td>EC: García&lt;br&gt;EC: Menjívar and Abrego</td>
</tr>
<tr>
<td>Week 10</td>
<td>T &amp; Th: Debating Assimilation, Segmented Assimilation and Mobility</td>
<td>EC: Brown and Bean</td>
</tr>
<tr>
<td>Week 11</td>
<td>T: From Immigrants to Ethnics: Political Incorporation&lt;br&gt;Th: Constructions of Illegality: Deportation and Detention</td>
<td>EC: Bloemraad</td>
</tr>
<tr>
<td>Week 12</td>
<td>T: Mixed Status Families Living in Limbo&lt;br&gt;Th: Undocumented Students and Political Activism</td>
<td>Gleeson, Chapters 1---2&lt;br&gt;<strong>ORAL HISTORY ANALYSIS DUE</strong></td>
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<tr>
<td>Week 13</td>
<td>T: Films: Food Chain and H2 Worker on mediamatrix&lt;br&gt;Th: Thanksgiving – no class</td>
<td>Gleeson, Chapters 3---4</td>
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<tr>
<td>Week 14</td>
<td>T: Building Immigrant Power along the Food Chain&lt;br&gt;Th: Making Worker Rights Work</td>
<td><strong>FILM REFLECTION</strong>&lt;br&gt;Gleeson, Chapters 5---6</td>
</tr>
<tr>
<td></td>
<td>T: Reflections&lt;br&gt;FINAL EXAM</td>
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</table>
Texas A&M University  
Departmental Request for a New Course  
Undergraduate • Graduate • Professional  
* Submit original form and attach a course syllabus. *

Form Instructions

1. Course request type:  
   - [ ] Undergraduate  
   - [ ] Graduate  
   - [X] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  
   Department of Sociology  
   SOCI 408: Death and Dying

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):  
   Exploration of interdisciplinary social issues surrounding death and dying: the interactions among professionals, families, and dying individuals; the development and functioning of death norms and institutions (e.g., hospitals, funeral homes, hospice, capital punishment); the critical analysis of social/cultural inequalities affecting when and how we die.

5. Prerequisite(s):  
   Junior or Senior classification or approval of instructor

6. Is this a variable credit course?  
   - [ ] Yes  
   - [X] No

7. If yes, from ____ to ____

8. Is this a repeatable course?  
   - [ ] Yes  
   - [X] No

9. If yes, this course may be taken ____ times.

10. Will this course be repeated within the same semester?  
    - [ ] Yes  
    - [ ] No

11. How will this course be submitted to the Core Curriculum Council?  
    - [X] Yes  
    - [ ] No  
    - [ ] P/F (CLM)

12. This course will be:  
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
   B.A. & B.S. in SOCI, General Academics

13. Prefix | Course # | Title (excluding punctuation)

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<tr>
<th>SOCI</th>
<th>408</th>
<th>DEATH AND DYING</th>
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<td>3.00</td>
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<td>2590</td>
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</table>

Approval recommended by:  
Jane Sull  
Department Head or Program Chair (Type Name & Sign)  
Date 9/28/12015

Steven M. Oberhelmen  
Chair, College Review Committee  
Date

Pamela R. Matthews  
Dean of College  
Date 10-20-15

Submitted to Coordinating Board by:  
Chair, GC or UCC  
Date  
Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Instructor: Tim Woods, Ph.D.
Email: twoods@tamu.edu
Telephone: 979-458-2746
Office: Academic Building, 305c

Course descriptions: Exploration of interdisciplinary social issues surrounding death and dying: the interactions among professionals, families, and dying individuals; the development and functioning of death norms and institutions (e.g., hospitals, funeral homes, hospice, capital punishment); the critical analysis of social/cultural inequalities affecting when and how we die.

Learning Outcomes: By the end of this course students should be able to:

♦ Describe normative social interactions among professionals, families, and dying individuals.
♦ Identify and compare/contrast theoretical models/perspectives of the dying process.
♦ Identify important social/cultural differences surrounding death and dying and describe how social/cultural differences affect the dying process in American society and the world.
♦ Identify historical and contemporary institutions involved in the dying process and explain their impact on the dying process.

Prerequisites: Junior or Senior classification or approval of instructor.

Course Materials:

Required:


Supplemental readings online via TAMU library.
Course Requirements:

Course grades will be based on two exams, two assignments, and class participation.

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<tbody>
<tr>
<td>Exams</td>
<td>50%</td>
</tr>
<tr>
<td>Assignments</td>
<td>40%</td>
</tr>
<tr>
<td>In-class Participation</td>
<td>10%</td>
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<tr>
<td>TOTAL</td>
<td>100%</td>
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</tbody>
</table>

Course letter grades will be based on the following percentages.

<table>
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<th>Average</th>
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</thead>
<tbody>
<tr>
<td>A</td>
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<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>59% and below</td>
</tr>
</tbody>
</table>

Exams (50%): There will be two equally-weighted exams. Exams will include material from the lectures, assigned readings, and class discussion. You will be examined on material in the readings that are not covered in the lectures and on material covered in the lectures that are not in the readings.

Assignments: There will be two assignments.

1. StoryCorps Interview (10%). A 3-5 minute (edited) audio-recorded interview of an ADULT family member about the death of someone close to that person. Information should include all the details discussed in the course concerning the social context and interactions with others during the dying process. See StoryCorps Interview instruction sheet posted on Ecampus and listen to examples of interviews about death as posted at StorCorps.org (Due March 25)

2. A research proposal (30%). Students should identify a topic of personal interest related to the social scientific study of death and dying. They will then conduct a review of professional literature on this topic, including a description of the theories and methods used in the research and the empirical findings to date on the issue. Students should then propose a specific problem or contradiction or issue related to, but not answered by, their literature review. Students will identify one social scientific theory or model they would use to understand their proposed research question and explain how the theory can be used to elucidate the research question. Lastly, students will describe in detail the method and data-gathering technique they would use to carry out their research. The more detailed and developed the proposal, the better the grade. Note: You are not actually completing the research, but instead, only proposing a credible and consistent theory and method that could be used to research the sociological question you have developed. 10 pages maximum. (Due May 5).

In-Class Participation (10%). Students are expected to come to every class having read the material and being prepared to actively engage in the class. Many course periods will include active engagement exercises. During the second week of class, students will sign up to be a discussion facilitator for one topic during the semester. For one class period on that topic (usually a Wednesday), you will be responsible for leading the discussion on that weeks’ readings.
Make-up Policy: □ If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university-approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. □ The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://student-rules.tamu.edu/rule7). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index.
2) Death or major illness in a student’s immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student’s presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1).
   b) Injury or illness of less than three class days: Student will provide, within one week of the last date of the absence, a confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

Drop Policy: If you wish to withdraw from this course, you are required to fill out and return the necessary forms at the Texas A&M Office of the Registrar. The Registrar’s Office has a published deadline for which the form must be signed and returned. Should you miss the deadline or fail to follow the Record’s Office procedures, you will receive a grade in the course.

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, Student Services @ White Creek, phone 845-1637. For additional information visit http://disability.tamu.edu.

□ Academic Integrity Statement and Policy: "An Aggie does not lie, cheat or steal, or tolerate those who do." □

The student code of conduct operates implicitly in everything you do in this course. If you cheat during an exam or plagiarize work (published or unpublished), you will receive an “F” in the course and the case will be submitted to the Aggie Honor System Office. Students are responsible for being familiar with the Aggie Honor Code Rules and Policies at http://aggiehonor.tamu.edu

Attendance Policy: You are expected to arrive to class early and be prepared to start class on time, every time. “The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and
unexcused absences are located on-line at http://student-rules.tamu.edu/rule07." Course material (notes, etc.) missed during an absence should be acquired from another student. Once you have acquired and reviewed the notes from the class that you missed, you are encouraged to visit with a teaching assistant or the instructor about any questions you may have concerning the notes or other material.

Classroom Expectation: You are expected to behave as a respectful member of a learning community. Any student engaged in disruptive or disrespectful behavior will be asked to leave the classroom for the remainder of the class period and, if warranted, will be reported to the Dean of Student Life and the Student Conduct Office.

COURSE SCHEDULE AND READING ASSIGNMENTS

<table>
<thead>
<tr>
<th>Week</th>
<th>TOPIC/READINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Introduction to the Sociology of Death and Dying</td>
</tr>
<tr>
<td></td>
<td>Fontana and Keene, Chapter 1</td>
</tr>
<tr>
<td></td>
<td>Preface and Introduction in Kulber-Ross Death, The Final Stage of Growth.</td>
</tr>
<tr>
<td>Week 2</td>
<td>Socialization</td>
</tr>
<tr>
<td></td>
<td>Fontana and Keene, Chapter 8</td>
</tr>
<tr>
<td></td>
<td>Chapter 6 in Kulber-Ross Death, The Final Stage of Growth.</td>
</tr>
<tr>
<td>Week 3</td>
<td>Demography and History of Death,</td>
</tr>
<tr>
<td></td>
<td>Fontana and Keene, Chapter 2</td>
</tr>
</tbody>
</table>

Week 4 Culture and Death

Fontana and Keene, Chapter 2

Chapter 3 in Kulber-Ross Death, The Final Stage of Growth.


Week 5 How We Die, Physiology and Behavior of Dying.

Fontana and Keene, Chapters 4

Nuland, How We Die. (Chapters available Google Books: http://books.google.com/books/about/How_we_die.html?id=ffj03ghdnqwC)

Week 6 Institutions and Medical Care

Fontana and Keene, Chapters 3


Week 7 Institutions and Social Interactions (continued)


Week 8 Hospice

Fontana and Keene, Chapter 3

Erikson, How We Die Now, Chapters (online TAMU library)

March 5, Midterm Exam

MARCH 16-20 SPRING BREAK, NO CLASSES

Week 9 Funerals and Body Disposition

Fontana and Keene, Chapter 5

Chapter 4 “Funerals” in Kulber-Ross Death, The Final Stage of Growth.


March 25th, StoryCorps Interview Due

Week 10 Survivors, Loss, and Grief

Fontana and Keene, Chapter 8 and 9

Kulber-Ross Death, The Final Stage of Growth Chapter 4.

Week 11 Suicide


QPR Training.

Week 12 War and Traumatic Death

Fontana and Keene, Chapter 7

Week 13  Inequality and Death

Therborn, *The Killing Fields of Inequality.*

Chapter 5 “Sickness, Death and a Good Ending” in Farha, Ghannam.2013. *Live and Die Like a Man: Gender Dynamics in Urban Egypt.* Stanford University Press. (online TAMU library)

Week 14  Inequality and Death (continued): Capital Punishment


May 5, Last Day of Class, Research Proposals Due in Final Form

Final Exam, Tuesday, May 10th 1:00-3:00 pm.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:
   - ☒ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   - Health and Kinesiology

3. Course prefix, number and complete title of course:
   - SPMT 481 Seminar

4. Catalog course description (not to exceed 50 words):
   - A variety of topical seminars in communicating contemporary and historical sport management subjects designed to complement the curriculum in sport management.

5. Prerequisite(s):
   - Admission to the professional phase of the sport management program; Junior or Senior Classification; or approval of instructor

   Cross-listed with: 
   Stacked with:

   (Cross-listed courses require the signature of both department heads.)

6. Is this a variable credit course?
   - ☐ Yes  ☒ No
   - If yes, from _______ to _______

7. Is this a repeatable course?
   - ☒ Yes  ☐ No
   - If yes, this course may be taken ______ times.

   Will this course be repeated within the same semester?
   - ☒ Yes  ☐ No

8. Will this course be submitted to the Core Curriculum Council?
   - ☐ Yes  ☒ No

9. How will this course be graded:
   - ☒ Grade  ☐ S/U  ☐ P/F (CLMD)

10. This course will be:
   - a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      - B.S. in Sport Management; Minor in Sport Management
   - b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
      - open to any student as an elective

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    SPMT  481  SEMINAR

    | Lect. | Lab | Other | SUI | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code |
    |-------|-----|-------|-----|------------------|-------------|------------|-----------|
    | 1.00  |     | 1.00  | 3105040016 | 1402          | 16          | 17         | 0 0 3 6 3 2 |

    Approval recommended by:
    - Richard Kreider
    - Chris Cherry

    Department Head or Program Chair (Type Name & Sign) Date
    - Date
    - Date

    Dean of College
    - Date

    Chair, College Review Committee
    - Date

    Chair, GC or UCC
    - Date

    Submitted to Coordinating Board by:
    Associate Director, Curricular Services
    - Date
    - Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services - 07/14
Department of Health and Kinesiology
Texas A&M University
SPMT 481
Seminar in ...  
Fall 2016
1 Credit (may be taken 3 times for credit)

Instructor: TBA  
Office: TBA  
Email: TBA  
Phone: TBA

Course Description: Topical seminars. A variety of topical seminars are offered communicating contemporary and historical sport management subjects. Courses could include readings, writings, quizzes, tests, and lectures designed to complement the curriculum in sport management.

Meeting Location, Day and Time: TBA

Textbook: TBA, dependent on topic

Prerequisite: Admission to the professional phase of the sport management program or approval of instructor; Junior or Senior classification.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings</th>
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<tbody>
<tr>
<td>Week 1</td>
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<td>Week 5</td>
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<tr>
<td>Week 15</td>
<td>Final Exam</td>
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Academic Integrity Statement and Policy - “An Aggie does not lie, cheat or steal, or tolerate those who do.” - Include Aggie Honor Code statement and website link http://aggiehonor.tamu.edu
Sample Syllabus

SPMT 481: SEMINAR – SPORT HISTORY
TEXAS A&M UNIVERSITY

INSTRUCTOR INFORMATION:
Name: Dr. Paul E. Keiper, Ed.D.
Off. Loc.: Blocker 342BC
Phone: 458-2724
Email: pkeiper@hlkn.tamu.edu
Off. Hours: T/R 1:00-2:00, or by appointment

Teaching Assistant:
Name: Hannah Malcomb
Off. Loc.: Blocker 340
Email: hmalcomb@tamu.edu

Web Based Class Location: on ecampus
Course Websites: ecampus.tamu.edu (You must check this site often for updates and communication from me.)

COURSE DESCRIPTION

This course is a survey of the history of modern sport and sports development over time. As you participate in this course you will be given the opportunity to analyze the relationship between sport and society. You will, also, be able to examine central problems revolving around sport from a variety of viewpoints.

LEARNING OUTCOMES

After completing this course, you should be able to:
- Describe the importance of sport in society.
- Determine the value the study of sport history has had on today’s cultural issues.
- Compare and contrast sport today and sport history.

COURSE READINGS


POINT STRUCTURE:

<table>
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<th>Component</th>
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<tr>
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<tr>
<td>Quizzes</td>
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GRADING STRUCTURE:

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<td>70-79%</td>
<td>C</td>
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<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>≤ 59%</td>
<td>F</td>
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</table>
Sample Syllabus
Course Policies and Expectations

General Course Rules.

Any work missed due to an unexcused absence may not be made up at a later date. The only exception to this policy is written documentation of a situation that absolutely prohibits you from punctual responsibilities. Refer to Academic Rules, Rule 7 for http://student-rules.tamu.edu/rule07

Plagiarism Statement.

As commonly defined, plagiarism consists of passing off as one’s own ideas, words, writings, etc., those which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of that person. Another less known violation is when a student turns in a paper of their own twice, this is called multiple submissions. Plagiarism is one of the worst academic sins, for plagiarists destroy the trust among colleagues without which research cannot be safely communicated. If you have questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, http://student-rules.tamu.edu, under the section “Scholastic Dishonesty.”

Academic Integrity Statement and Policy

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Copyright Statement

The materials used in this course are copyrighted. These materials include, but are not limited to, the syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless permission is expressly granted.

Accessibility.

To access the university’s accessibility policy please go to http://itaccessibility.tamu.edu. This will assist you with web issues you might be experiencing.
Sample Syllabus

1. **Paper:** You will select a topic from the readings and expound on that topic. Further, you will compile the data, research, or other material you discover into at least a 1000 word essay (this means 1000 words in the body excluding title page, diagrams, or reference page). You should discuss a topic discovered from the text, this could be a person, issue, or reactions to the ideas presented in the text. You need to draw on outside materials to support your findings or arguments in the report; at least two unique references should be used, **do not use the text or Wikipedia. Do not plagiarize!** See previous rule regarding plagiarism. You can check the turnitin.com site for the Originality Report to see how much of your paper is similar to other writings; if it is showing a lot of similarity, I would fix it if I were you.

   1. The paper may contain a small portion of your opinion; however, you need to base your story or argument on the research (other authors).
   2. The report should be between 3-5 pages of text (at least 1000 words), plus additional pages for references, any tables, or any figures.
      a. The first paragraph should be a brief introduction. This introduction must include your rationale for choosing the topic. Why did you choose this topic? It doesn’t need to be long around 100-150 words. It is fun for me to see why you preferred the topic. It is fascinating and makes it worthwhile to read. I care.
   3. Style and formatting should be in accordance with the standards set forth by the *American Psychological Association Publications Manual* (6th ed.). A copy is available in the library. Or, you can find information on the APA website [www.apastyle.org](http://www.apastyle.org). With APA style you need to have APA citations throughout your paper. This shows the reader where you obtained your information. There is additional APA information on the ecampus site.
   4. You need a title page; include on the title page: title of your paper, your name, your course number and title, date turned in, instructor’s name, and university. You do not need an abstract. You do need a reference page.
   5. **You must submit this online via ecampus. Note: A portion of your grade is on how well you follow these instructions.**

!!!NO PAPERS ON JACKIE ROBINSON, YOU MAY NOT CHOOSE THIS TOPIC!!!

**Course instructions for all students cont.**

2. **Quizzes:** Ten quizzes will be administered during the semester on ecampus, one following each section. The quizzes will be in multiple choice and true-false format. Each quiz is worth 10 points. The quizzes will be opened early during the semester (or maybe even before) and will be closed on the due date indicated in the schedule below at 11:59 p.m. You will need to stay on pace to finish. There is nothing preventing you from working ahead of the pace set!

(Course Schedule on the following pages)
Sample Syllabus

Course Schedule:

Modules:

1. What is Sport History?
   Last Day to take this Quiz: September 16th
   Urbanization and the Rise of Sport – p. 8-14
   The New Cultural Sport History – p. 18-24

2. The Making of a Modern Sporting Culture
   Last Day to take this Quiz: September 23rd
   The Great Foot Race of 1835 – p. 54-55
   Thomas W. Higginson Analyzes the American Clergy and Their Need for Physical Fitness, 1858 – p. 89-91
   Catharine Beecher Criticizes Women’s Frailty and Recommends What Should Be Done About It, 1855 – p. 91-93
   The Spirit of the Times Examines the Founding of the New York Athletic Club, 1868 – p. 98-99

3. Sport and Higher Education in America
   Last Day to take this Quiz: September 30th
   Coach Walter Camp on Sportsmanship – p. 120-122
   Henry Beach Needham Decries the Professionalization of College Athletes, 1905 – p. 124-126

4. The Commercialization and Professionalization of Sports
   Last Day to take this Quiz: October 7th
   Supreme Court Justice Oliver Wendell Holmes, Jr., Explains Why Baseball Is Not Subject to Antitrust Laws, 1922 – p. 215-217

5. Gender and Sport in Modern America
   Last Day to take this Quiz: October 14th
   Theodore Roosevelt Examines How Sport Makes Boys into Men – p. 243-244
   Senda Berenson Asserts the Value of Adapted Women’s Basketball, 1901 – p. 251-254
   Dr. Dudley A. Sargent Asks, “Are Athletics Making Girls Masculine?”, 1912 – p. 254-256
   The Early Career of Car Racer Joan N. Cuneo – p. 256-258

(SEE MORE SECTIONS ON THE FOLLOWING PAGE)
6. Race and Ethnicity in American Sport

**Last Day to take this Quiz: October 21st**
Prejudice Against African-American Ballplayers in the St. Louis *Post-Dispatch*, 1911 – p. 281-282
I Caught Satchel Paige in the 1930’s – p. 282-283

7. Sports Heroes and American Culture

**Last Day to take this Quiz: October 28th**
Commonweal Memorializes Christy Mathewson, a Real-Life Merriwell p. 313
The Black Sox Scandal and the Fallen Hero: The Confession of Joe Jackson, 1920 p. 313-318
Babe Ruth, the New American Sports Hero, 1920 – p. 318-320
Joe Louis as African American Hero: The Reminiscences of Maya Angelou, 1938 – p. 320
Red Grange and American Sport Heroes of the 1920’s – p. 322-326

8. American Women and Sport

**Last Day to take this Quiz: November 4th**
Billie Jean King Remembers Life as an Outsider in the 1950’s and 1960’s – p. 347-351
Baylor University Athletic Director Grant Teaff Criticizes the Impact of Title IX on Intercollegiate Football, 1993 – p. 355-357
Babe Didrikson Zaharias: The “Texas Tomboy” – p. 326-331 *(note: earlier in text)*

9. Sport and Race in America

**Last Day to take this Quiz: November 14th**
Jackie Robinson on the Struggles of His First Spring Training, 1946 – p. 381-384
The Thoughts of Muhammad Ali in Exile, 1967 – p. 384
“Roberto Clemente: Baseball’s ‘Magnificent Militant’” – p. 386
A Lone Negro in the Game: Jackie Robinson’s Rookie Season p. 388-395

10. The Business of Sport

**Last Day to take this Quiz: November 24th**
Norris Poulson Reveals How Los Angeles Got the Brooklyn Dodgers in 1958 – p. 409-412
The Report on Enhancement Performing Drugs in Major League Baseball – p.419
The NCAA Monopoly: Revenue, Reform, and Exploitation – p. 426

**Final Paper Due by December 9th. You can turn it in early!**
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☒ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Undergraduate Studies
3. Course prefix, number and complete title of course: UGST 211 UScholar Personal Statement
4. Catalog course description (not to exceed 50 words): Oral and written reflection on values, goals, and opportunities. Preparation of personal statement appropriate for nationally competitive scholarship application.

5. Prerequisite(s): University Scholar Status
Cross-listed with: ___________________________ Stacked with: ___________________________

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? ☒ Yes ☐ No If yes, from _____ to _____
7. Is this a repeatable course? ☐ Yes ☒ No If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester? ☐ Yes ☐ No
8. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☒ No
9. How will this course be graded? ☐ Grade ☒ O/U ☐ P/F (CLMD)
10. This course will be:
    a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation) | UScholar Personal Statement
| UGST | 211 | UScholar Personal Statement |

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<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
UGST 211: UScholar Personal Statement
Location: Henderson 103

Term: Fall 2016
Time: TBD

Course Description & Prerequisites
The UScholar Personal Statement seminar is a one-credit-hour course offered exclusively to students participating in the University Scholars program. It is required for students in their first semester of the University Scholars Program (typically first semester of sophomore year).

This course consists of oral and written reflection on values, goals, and opportunities. You will examine your strengths and weaknesses in order to increase your self-awareness and to develop a sense of purpose for your undergraduate career. You will prepare a personal statement, similar to a statement that would be submitted for applications to nationally competitive scholarships or graduate schools, that articulates your values and goals.

Learning Outcomes
Students who complete this seminar will be able to...
- Conceive a “personal mission,” or sense of self and purpose;
- Consciously examine their personal values and their origins;
- Develop a method by which they can articulate and then evaluate their personal goals;
- Identify resources necessary to successfully navigate college and related opportunities;
- Craft a personal statement, as would be used in the application to graduate or professional school, internship programs, or competitive fellowships.

Instructor Information
Dr. Sumana Datta
Office: 213 Henderson Hall
Phone: 845-1957
Email: sumad@tamu.edu
Office hours: By appointment

Adelia Humme
Office: 202 Henderson Hall
Phone: 845-5910
Email: arhumme@exchange.tamu.edu
Office hours: Tuesday, 10:15-11:45 a.m., 2:00-3:30 p.m.; Thursday 9:30-11:45 a.m., 2:00-4:15 p.m.
Required Textbook or Resource Materials
There is no textbook for this course. Throughout the semester, you will be provided with videos and readings by email. Near the end of the semester, your weekly reading will be your classmates' personal statements.

Attendance and Make-up Policies
Since the course meetings will primarily focus on group discussion, you are expected to diligently attend and participate in class. University-excused absences are allowed; please notify your instructor as soon as possible about your absence, in accordance with the policies outlined in Student Rule 7 (http://student-rules.tamu.edu/rule07). More than 2 unexcused absences during the semester will result in the loss of 1 participation point per absence (see grading policies below). If you miss class for an unexcused absence, you are still expected to submit on time any assignment due that day. If your absence is excused, you have a one-week extension to submit an assignment that was due on the day of your absence.

Confidentiality
The nature of this class is highly personal. You and your classmates will discuss topics of deep importance to your beliefs, including – but not limited to – moral, religious, and political values. Treating your classmates and instructor with respect, both in your words and in your willingness to listen, is essential to a supportive classroom environment. Additionally, we ask that what you learn about your classmates in this seminar not be shared outside of the classroom.

Grading Policies
This course is graded S/U. The following scale will be used to determine your course grade:

“S,” or satisfactory: 85% or better (85-100 points)
“U,” or unsatisfactory: 0-85% (0-85 points)

Points are weighted as follows:

50% - 5 Written Reflections, 10 points each. Throughout the semester, you will write 5 one- to two-page, typed responses to prompts. Written reflections should be submitted to your instructor via email and are due before the next class meeting. Late submissions will be accepted up to 48 hours after the deadline with a 2-point deduction, after which no credit will be given.

25% - 1 Personal Statement, 25 points. You will write a personal statement, reflecting on your identity, values, and goals. This statement should articulate how you intend to develop yourself throughout college to achieve your goals and/or pursue your values. Your statement should be typed and at least 1,000 words. A late submission will be accepted up to 48 hours after the deadline with a 3-point deduction, after which an additional 5 points will be docked per day late. If you do not submit a personal statement, you will not pass this course, regardless of your point total.

5% - 1 Revised Personal Statement, 5 points. After receiving feedback from your peers in class, you should revise your personal statement based on their suggestions and submit an
updated statement to your instructor via email. A late submission will be accepted up to 48 hours after the deadline, after which no credit will be given.

10% - 10 Partner Discussions. 1 point each. Each week, you will be assigned to meet with another University Scholar outside of class to discuss what you are learning in both of your seminars. All discussions must be complete by the deadline; no late credit will be given.

10% - Participation. 10 points. Your active participation in class discussion is vital to the success of this course. Please ask thought-provoking questions, offer substantial and constructive feedback on your peers’ writing, and articulate your ideas clearly. You are allowed 2 unexcused absences without penalty, after which each unexcused absence deducts 1 point from your participation grade.

**Academic Integrity**

Since the content generated in this class will be intensely personal, plagiarizing someone else or cheating in any way is illogical and deprives you of the growth you should experience in this course. As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Academic Misconduct."

The Aggie Honor Code

*An Aggie does not lie, cheat, or steal, nor tolerate those who do.*

For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu) or [http://student-rules.tamu.edu](http://student-rules.tamu.edu)

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, at Student Services at White Creek (on West Campus), or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Course Schedule**

Given the incremental “building block” nature of this course, working ahead is not in your best interest, so this schedule is intentionally sparse.

<table>
<thead>
<tr>
<th>Week 1 ~ Kick-off Dinner</th>
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<tr>
<td>- All University Scholars should attend the kick-off dinner to meet their fellow Scholars and review the expectations for the semester.</td>
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<table>
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<tr>
<th>Week 2 ~ Meet 'n' Greet</th>
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<tr>
<td>- 60-second introductions</td>
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</table>
• Establish Circle of Trust.
• Over the course of the semester, consider why we ask you these questions.
• HW: **Written Reflection #1** – Write about someone you haven’t met who inspires you. Due before week 3 class meeting.

Week 3 ~ Inspirational Person
• Share “inspiring person” essays. Why did you have to pick someone you didn’t know?
• HW: **Written Reflection #2** – Describe two pivotal events in your life – one national/global and one local or personal that people outside of your hometown wouldn’t necessarily know about. Due before week 4 class meeting.

Week 4 ~ Pivotal Events
• How did you change as a result of these events?
• HW: Watch behind-the-scenes video about fate vs. free will in *The Adjustment Bureau*. https://www.youtube.com/watch?v=MOU3HCQm7jk
• HW: Read about research on the economics of beauty.
• HW: **Written Reflection #3** – To what extent do you feel that you have controlled the course of your life? Due before week 5 class meeting.

Week 5 ~ Fate vs. Free Will
• Discussion of how our circumstances dictate certain outcomes in our lives. How does your appearance (beauty) affect your success? Would you believe in your religion if you were not raised in it? Etc.
• HW: **Written Reflection #4** – What do you like the least about yourself? Due before week 6 class meeting.

Week 6 ~ Being Comfortable with Discomfort
• Share “like least” essays in a supportive environment, with the purpose of learning that being “not okay” is an acceptable and normal part of life.
• HW: Read “Desiderata” poem. Reflect on what you are grateful for.
http://www.cs.columbia.edu/~gongsu/desiderata_textonly.html

Week 7 ~ Impossible Scenarios
• Hypothetical multiple-choice questions; life-raft scenario
• HW: Watch “The Last Lecture” TED talk.
http://www.ted.com/talks/randy_pausch_really_achieving_your_childhood_dreams.html
• HW: **Written Reflection #5** – Write your last lecture, the wisdom or advice that you want to leave behind, from your current age and perspective. Dig deep. Due before week 8 class meeting.

Week 8 ~ Last Lecture
• Share highlights from “Last Lecture” essays.
• Why do we all have different pieces of advice? Why do YOU think the way you do?
• HW: **Personal Statement** – Write your 1,000-word personal statement.

Week 9 ~ Bring a computer or paper and pencil; use this class time to continue writing
your personal statement.

Week 10 ~ **ALL PERSONAL STATEMENTS DUE VIA EMAIL 24 HOURS BEFORE CLASS MEETING.**
- Read and discuss 3-4 statements. Share constructive feedback.

Week 11 ~ Continue discussing personal statements.
- Read and discuss 3-4 statements. Share constructive feedback.

Week 12 ~ Continue discussing personal statements.
- Read and discuss 3-4 statements. Share constructive feedback.

Week 13 ~ **REVISED PERSONAL STATEMENT DUE VIA EMAIL BEFORE CLASS MEETING. ALL PARTNER DISCUSSIONS MUST BE COMPLETED BEFORE CLASS MEETING.**
- Discuss how you have grown over the course of this seminar. Have your priorities changed? Do you feel better prepared to capitalize on your strengths? Are you more comfortable with your flaws?
- Learn why you were selected for University Scholars!
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type:  ☒ Undergraduate  ☐ Graduate  ☐ First Professional (DVM, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Undergraduate Studies
3. Course prefix, number and complete title of course: UGST 311 UScholar Exploration Series
4. Catalog course description (not to exceed 50 words): Selection from a variety of discussion topics designed to foster student-faculty interaction, intellectual and cultural enrichment, inter- and cross-disciplinary connections, and the development of interest and knowledge of issues outside of a student’s degree area.

5. Prerequisite(s):
   Cross-listed with: Junior or Senior Classification or approval of instructor; Admitted to University Scholar program
   Stacked with:
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  ☒ Yes  ☐ No
   If yes, from 0 to 1

7. Is this a repeatable course?  ☒ Yes  ☐ No
   If yes, this course may be taken 6 times.
   Will this course be repeated within the same semester?  ☐ Yes  ☒ No

8. Will this course be submitted to the Core Curriculum Council?  ☐ Yes  ☒ No

9. How will this course be graded?  ☐ Grade  ☒ S/U  ☐ P/F (CLMD)

10. This course will be:
    a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  | Course #  | Title (excluding punctuation)  | UGST  | 311  | USCHOLARS EXPLORATION SERIES  

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<thead>
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Level 3

Approval recommended by:

Department Head or Program Chair (Type Name & Sign)  Date

Department Head or Program Chair (Type Name & Sign)  Date
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14

Chairs: College Review Committee  Date
Dean of College  Date
Chair, GC or UCC  Date

Effective Date

OCT 23 2015  CURRICULAR SERVICES
UGST 311: UScholar Exploration Group  
Location: Henderson Hall 103  
Term: Spring 2016 
Time: TBD

Course Description & Prerequisites
UScholar Exploration Group is a one-credit-hour seminar course for students in the University Scholars program. Students in at least their second semester with the program will enroll in one Exploration Group per semester. The topic of this Exploration Group is Intelligence. We will seek to understand different definitions of intelligence and expand our understanding of intelligence to include, among other traits, athletic ability, military information, and social skills. We will discuss psychology and brain functions with professors and researchers, examine our own attitudes towards unconventional “ways of knowing,” and critique the validity of IQ exams and similar assessments.

Learning Outcomes
Upon completion of this course, students should be able to:

- Demonstrate a working familiarity with several definitions of intelligence;
- Understand the origins, use, and validity of common IQ tests;
- Debate what constitutes intelligence and what criteria should be measured;
- Examine their own ideas about how they evaluate intelligence in others; and
- Connect our discussions of intelligence to their own academic fields and/or career goals.

Instructor Information
Dr. Sumana Datta
Office: 213 Henderson Hall
Phone: 845-1957
Email: sumad@tamu.edu
Office hours: By appointment

Adelia Humme
Office: 202 Henderson Hall
Phone: 845-5910
Email: arhumme@exchange.tamu.edu
Office hours: Tuesday, 10:15-11:45 a.m., 2:00-3:30 p.m.; Thursday 9:30-11:45 a.m., 2:00-4:15 p.m.

Required Textbook or Resource Materials
There is no textbook for this course. Throughout the semester, you will be provided with videos and readings by email. Links to the readings and videos can also be found in the schedule on this syllabus.

Attendance and Make-up Policies
Since the course meetings will primarily focus on group discussion, you are expected to diligently attend and participate in class. University-excused absences are allowed; please notify your instructor as soon as possible about your absence, in accordance with the policies outlined in Student Rule 7 (http://student-rules.tamu.edu/rule07). More than 2
unexcused absences during the semester will result in the loss of 1 participation point per absence (see grading policies below). If you miss class for an unexcused absence, you are still expected to submit on time any assignment due that day. If your absence is excused, you have a one-week extension to submit an assignment that was due on the day of your absence.

Grading Policies

This course is graded S/U. The following scale will be used to determine your course grade:

- "S," or satisfactory: 85% or better (85-100 points)
- "U," or unsatisfactory: 0-85% (0-85 points)

Points are weighted as follows:

20% - Midterm Written Reflection, 20 points. Select one of the topics discussed in this course and investigate it further, summarizing your findings in a written reflection. Cite credible sources as needed. 1.5-2 pages, typed, double spaced, Times New Roman. Written reflections should be submitted to your instructor via email and are due as indicated on the schedule. Late submissions will be accepted up to 48 hours after the deadline with a 5-point deduction, after which no credit will be given.

20% - Final Written Reflection, 20 points. Discuss how you will apply what you have learned in this class to your academic and/or career plans. How can these topics be useful in your studies or professional development? Have you thought about your academic field differently because of one of our class discussions? Cite credible sources as needed. 1.5-2 pages, typed, double spaced, Times New Roman. Written reflections should be submitted to your instructor via email and are due as indicated on the schedule. Late submissions will be accepted up to 48 hours after the deadline with a 5-point deduction, after which no credit will be given.

50% - 10 Partner Discussions, 5 points each. Each week, you will be assigned to meet with another University Scholar outside of class to discuss what you are learning in both of your seminars. All discussions must be complete by the deadline; no late credit will be given.

10% - Participation, 10 points. Your active participation in class discussion is vital to the success of this course. Please ask thought-provoking questions, offer substantial engagement with your peers’ ideas and opinions, and articulate your ideas clearly. You are allowed 2 unexcused absences without penalty, after which each unexcused absence deducts 1 point from your participation grade.

Academic Integrity

As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Academic Misconduct."
The Aggie Honor Code  
*An Aggie does not lie, cheat, or steal, nor tolerate those who do.*

For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu) or [http://student-rules.tamu.edu/](http://student-rules.tamu.edu/)

**Americans with Disabilities Act (ADA)**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, at Student Services at White Creek (on West Campus), or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Course Schedule**

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<th>Week 2 ~ Course Expectations</th>
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<tr>
<td>- Review syllabus</td>
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<td>- Group brainstorm: What topics would you like to learn about in this course?</td>
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<tr>
<th>Week 3 ~ Gardener's Theory of Multiple Intelligences</th>
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<tr>
<td>- Complete self-assessment of multiple intelligences <a href="http://www-tcall.tamu.edu/research/nso/lis/lis_e.html">http://www-tcall.tamu.edu/research/nso/lis/lis_e.html</a></td>
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<tr>
<td>- Would you add an additional intelligence? Do you think Gardener’s intelligences have equal merit?</td>
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<tr>
<th>Week 4 ~ Plant intelligence</th>
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<tr>
<td>- Given the information in the video, what separates human intelligence from that of plants? What can we do that plants can’t do?</td>
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<tr>
<td>- Do you agree with Dr. Mancuso’s conclusion that we should design robots based on plants?</td>
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**HW:** Each student will be assigned one of the following articles to read and share with the class in our next meeting:

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<th>Week 5 ~ Trust in expert opinions</th>
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<tbody>
<tr>
<td>- How do we determine whether we trust an “expert”? The expert’s credentials, public consensus, our own opinions?</td>
</tr>
</tbody>
</table>
• Share and discuss the articles you read for homework. How should we approach education and changing people’s minds if research indicates that facts alone don’t work?

HW: Each student will be assigned one of the following articles to read and share with the class in our next meeting:
• http://www.livescience.com/16748-americans-beliefs-paranormal-infographic.html
• http://www.livescience.com/24479-bodies-predict-the-future.html
• http://news.harvard.edu/gazette/story/2008/01/neuroimaging-fails-to-demonstrate-esp-is-real/

Week 6 ~ Extrasensory Perception
• Share and discuss the articles you read for homework.
• Why do you think scientific studies contradict each other on the existence of paranormal abilities and experiences? Is this a case of people wanting to believe, or is there more to the universe than we can scientifically measure?
• Would you vote for a government leader, like President Reagan, who believes in the paranormal? Why or why not?
• Discuss US Military’s Stargate Project (hired psychics for intelligence during the Cold War). Is funding paranormal research a responsible use of government funds? University research funds?

Week 7 ~ Sports psychology: athletes & IQ tests
• Dr. Arnold LeUnes from the Psychology department will lead a discussion of the history of IQ tests and the current use of IQ tests on NFL players. Dr. LeUnes will administer a sample Wonderlic intelligence test to the class.

HW: Midterm Written Reflection – Due prior to the start of Week 9 class meeting.

Week 8 ~ Emotional intelligence
• Dr. Frederick Nafukho from the department of Educational Administration and Human Resource Development will lead a discussion of how emotional IQ, including stress management and inter- and intrapersonal skills, affects lifelong success.

Week 9 ~ Memory
• Dr. Steven Smith from the department of Psychology will lead a discussion on how the context in which we learn new information impacts whether we retain what we’ve learned, why we experience “tip-of-the-tongue” states, and how we can improve our memory skills.

Week 10 ~ Stereotypes & Standardized Testing
• Dr. Lisa Geraci from the department of Psychology will lead a discussion on how stereotypes and self-perception affect performance on cognitive tests. How do we best assess students’ learning? Is standardized testing unfairly biased towards students with more access to social capital?

Week 11 ~ Gifted & talented
• Dr. Joyce Juntune from the department of Educational Psychology will lead a discussion of whether educators consider GT students to be “more intelligent” and how students are assessed to determine if they qualify for GT education. Do GT programs affect how students not selected to participate view their own intelligence and how teachers view and treat them?

Week 12 ~ Artificial intelligence
• Tentative: Tour Sketch Recognition Lab (Dr. Tracy Anne Hammond, department of Computer
Science and Engineering) to observe research on computer-human interaction and how it affects
the ways both people and machines “think.”

HW: Final Written Reflection – Due prior to the start of Week 14 class meeting.

**Week 13 ~ Government intelligence**

- Tentative: Richard Mac Namee, senior lecturer in the Bush School, will lead a discussion of
government intelligence, including his role assessing nuclear security and his work with MIS.

**Week 14 ~ Semester Wrap-up** All partner discussions must be completed prior to class meeting.

- Discuss Final Written Reflections.
- How do YOU define intelligence?
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   Undergraduate Studies

3. Course prefix, number and complete title of course:
   UGST 405 Thesis Writing

4. Catalog course description (not to exceed 50 words):
   Accessing information, searching scholarly literature, and oral or poster presentation of scholarly work and formal research thesis

5. Prerequisite(s):
   Junior or Senior status; enrolled in Undergraduate Research Scholars

   Cross-listed with: __________________________
   Stacked with: __________________________

   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?
   - Yes
   - No

   If yes, from ______ to ______

7. Is this a repeatable course?
   - Yes
   - No

   If yes, this course may be taken ______ times.

   Will this course be repeated within the same semester?
   - Yes
   - No

8. Will this course be submitted to the Core Curriculum Council?
   - Yes
   - No

9. How will this course be graded?
   - Grade
   - S/U
   - P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acadj. Year | FICE Code |
----------|-----------|--------------------------------|-------|-----|-------|-----|----------------|------------|-------------|-----------|
UGST      | 405       | THESIS WRITING                 | 1.00  | 0.00| 0-1   | 24.0199 | 1655          | 16 - 17    | 0 3 6 3 2   | Level 3    |

Approval recommended by:

Department Head or Program Chair (Type Name & Sign)  Date

Department Head or Program Chair (Type Name & Sign) (if cross-listed course)  Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
October 20, 2015

Dr. Donna Lang  
Vice President for Academic Operations  
Texas A&M University Galveston

Dear Dr. Lang:

Undergraduate Studies is submitting a course change for our Thesis Writing Course. This course has been previously taught as UGST 491 and is currently taught as UGST 485. We are proposing the course receive permanent status as UGST 405: Thesis Writing.

Galveston students participating in the Undergraduate Research Scholars program enroll in this course. We are requesting permission to include UGST 405 in the Texas A&M University Galveston Course Inventory. The course will carry with it the Writing Course attribute.

Sincerely,

Kristin S. Harper  
Executive Director for Undergraduate Studies

Approved for TAMU Galveston Course Inventory

Donna Lang, Ph.D.

[Signature]

[Stamp]  
Yes  
No  
10-20-2015  
Date
TEXAS A&M UNIVERSITY
LAUNCH: UNDERGRADUATE RESEARCH
COURSE SYLLABUS SPRING 2016
UGST 405-900: Thesis Writing
Class Sessions: Wednesday, 4:00 – 5:00 PM
Location: 103 Henderson Hall

Instructor: Dr. Duncan MacKenzie
Phone: 845-1957
Email: d-mackenzie@exchange.tamu.edu
Office: 212 Henderson
Office Hours: Mondays from 2 to 4 PM or by appointment
Course Website: Log in through eCampus.tamu.edu

Thesis Writing is a one credit seminar course offered exclusively for students participating in the Undergraduate Research Scholars program. It is not required for participation in the Research Scholars program, but is available to any Undergraduate Research Scholar who needs writing instruction or would like assistance with thesis preparation. The course also serves to satisfy one of your two writing-intensive (W) course requirements for graduation by writing your thesis under the direction of your advisor. You must confirm that your major department's advising office has submitted a “Department Request for W Course Sections” form to assure that you will receive W credit for this course. Check with Tammis Sherman if you are not sure about course approval.

Your research advisor will play a central role in this course. You will be expected to meet with him or her at regular intervals to assure that you are making adequate progress on your thesis and presentation. Additional feedback can come from Dr. Sumana Datta and Ms. Tammis Sherman at LAUNCH. Your advisor must read and suggest revisions to your thesis drafts to satisfy the W requirement.

Course Objectives
In this course you will
- Learn how to access information and search the scholarly literature
- Learn how to cite and document sources properly
- Learn how to prepare a formal research thesis
- Learn how to make scholarly presentations
- Utilize this information to complete your thesis and prepare a public research presentation

Required Texts
Undergraduate Research Scholars Thesis Manual and the Thesis Template can be found at http://hur.tamu.edu/Top-Static-Menu/Forms-Downloads

Recommended Text
Style guide of your choice (e.g. Kate L. Turabian's A Manual for Writers of Term Papers, Theses, and Dissertations; American Institute of Biological Sciences Style Manual; ACS Style Guide; Publication Manual of the APA; The MLA Handbook; Style Manual for Biological Journals; or The Chicago Manual of Style)

Software
RefWorks or EndNote bibliographic software (available for free to TAMU students) is strongly recommended for completing your thesis. If you will be using LaTex to submit your thesis, a copy of the Scholars Thesis LaTex template is available at the LAUNCH website.
Grading and Course Requirements
This course will be graded Satisfactory/Unsatisfactory. To achieve a satisfactory grade, a student must
- Attend all class meetings (with a maximum of one unexcused absence)
- Meet with your research advisor on a regular schedule
- Hand in assignments on time
- Present during Student Research Week or another public venue
- Complete and upload a thesis deemed satisfactory by Honors and Undergraduate Research and your research advisor by April 10th. To receive a satisfactory grade, the student’s faculty research advisor must approve the document for content and style. Advisor approval, with comments if necessary, is recorded in the Vireo thesis submission system. In addition, staff in the Undergraduate Research office review every submitted thesis against the attached formatting rubric. The thesis must meet all criteria on the rubric before it is considered acceptable for uploading to the Library’s public digital repository.

Attendance
Attendance is required except as allowed by the University rules on excused absences. If you have an excused absence it is your responsibility to complete the work that you have missed. (http://student-rules.tamu.edu/)

PLEASE NOTE THAT IF YOU FAIL TO ATTEND CLASS OR FINISH YOUR THESIS YOU WILL NOT RECEIVE SATISFACTORY W CREDIT FOR THIS COURSE. THIS MAY PREVENT YOU FROM GRADUATING IF THIS IS ONE OF YOUR REQUIRED W COURSES.

Need Writing Help?
- Visit the University Writing Center: http://uwc.tamu.edu, (979) 458-1455, 214 Evans Library.
- Undergraduate Research Scholars are provided access to POWER (Promoting Outstanding Writing for Excellence in Research) in the College of Education and Human Development.
- LAUNCH has resources to help you understand and complete the Scholars Thesis process: http://hur.tamu.edu/Top-Static-Menu/Forms-Downloads
- You can schedule a conference with your research advisor or Dr. MacKenzie.

Americans with Disabilities Act (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, the legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact the Department of Disabilities Services, at Student Services at White Creek, or call 845-1637.

Aggie Honor Code
"An Aggie does not lie, cheat or steal, or tolerate those who do." Upon accepting admission to Texas A&M University a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. Additional information about the Aggie Honor Code can be found at: http://aggiehonor.tamu.edu/

The consequences for plagiarism of any kind will be dismissal from the Undergraduate Research Scholars or Program and an unsatisfactory grade in the course.
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignments Due</th>
<th>Scholars Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/20</td>
<td>Introduction to Thesis Writing: Scholars Thesis Content and Style</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1/27</td>
<td>Small Group Research Presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2/3</td>
<td>Clear and Concise Writing The University Writing Center</td>
<td>Writing Revisions</td>
<td>Sunday 1/24: Chapter 2 draft due</td>
</tr>
<tr>
<td>4</td>
<td>2/10</td>
<td>Using Bibliographic Resources Dr. Stephen Bales, TAMU Libraries</td>
<td>Abstract Examples</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2/17</td>
<td>Writing Abstracts</td>
<td>Abstract Evaluations</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2/24</td>
<td>RefWorks and Endnote Dr. Stephen Bales and Dr. John Fullerton, TAMU Libraries</td>
<td>Draft SRW Abstract</td>
<td>Abstracts for SRW</td>
</tr>
<tr>
<td>7</td>
<td>3/2</td>
<td>URDC Academic Publishing</td>
<td>Poster Evaluations</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3/9</td>
<td>Making Presentations</td>
<td></td>
<td>Sunday 2/28: Chapter 3 draft due</td>
</tr>
<tr>
<td></td>
<td>Week of</td>
<td>Spring Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/14-18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>3/23</td>
<td>Digital Citizenship and Copyright Dr. Bruce Whitney, TAMU Libraries</td>
<td>Attend SRW Presentations</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Week of</td>
<td>Student Research Week (no class meeting)</td>
<td>SRW Presentation Evaluations</td>
<td>Sunday 4/3: Abstract and presentation form due</td>
</tr>
<tr>
<td></td>
<td>3/28-31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>4/6</td>
<td>Discussion of Student Research Week Experiences, Scholars Thesis Submission and Approval Process</td>
<td>Data Figure or Table</td>
<td>Sunday 4/10: Final Advisor-approved Thesis Upload</td>
</tr>
<tr>
<td>12</td>
<td>4/13</td>
<td>Small Group Research Presentations</td>
<td>Class Assessment</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>4/20</td>
<td>Wrap-up and Assessment</td>
<td>Data Graphic Vote</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>4/27</td>
<td>Galveston Research Symposium (no class meeting)</td>
<td>Scholars Program URSSSA Evaluation</td>
<td></td>
</tr>
</tbody>
</table>

All assignments will be due by the **Tuesday** the day **before** class at 5:00.

**Galveston Students:**
If you are enrolled in the course, participation in these activities is required. Lectures and presentations will be made available for you either in downloadable format or through the use of Blackboard Collaborate. Further details will be provided at the beginning of the semester on the schedule for accessing resources.
Undergraduate Research Scholars Final Submission Rubric

* Required

1. Student Name *

2. Is there anything wrong with the Title Page?
   Select No to move on to Table of Contents
   Mark only one oval.
   ○ Yes  Skip to question 3.
   ○ No    Skip to question 5.

Title Page

THESIS TITLE (14 PT. BOLD DOUBLE SPACED)
(two double spaced empty 12 pt lines)

An Undergraduate Research Scholars Thesis
by
STUDENT NAME
(two double spaced empty 12 pt lines)

Submitted to Honors and Undergraduate Research
Texas A&M University
in partial fulfillment of the requirements for the designation as an
(two double spaced empty 12 pt lines)
UNDERGRADUATE RESEARCH SCHOLAR
(two double spaced empty 12 pt lines)

Approved by
Research Advisor:        Dr. Research Advisor
(two double spaced empty 12 pt lines)

May 2015
(two double spaced empty 12 pt lines)

Major: Major
3. What's wrong with the student's Title Page?
   Check all that apply.
   □ Thesis Title Formatting
   □ Name and/or Statements
   □ Research Advisor
   □ Date or Major
   □ Paragraph Spacing (Single/Double)
   □ Line Spacing (Empty Lines)
   □ Other: __________________________

4. Would you like to be more specific?
   ______________________________________
   ______________________________________
   ______________________________________

Step 2 - Table of Contents

5. Is there anything wrong with the Table of Contents?
   Select No to move on to the Abstract Page.
   Mark only one oval.
   □ Yes Skip to question 6.
   □ No Skip to question 8.

Table of Contents

TABLE OF CONTENTS (14 PT. BOLD DOUBLE SPACED)

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSTRACT</td>
</tr>
<tr>
<td>DEDICATION</td>
</tr>
<tr>
<td>ACKNOWLEDGEMENTS</td>
</tr>
<tr>
<td>NOMENCLATURE</td>
</tr>
<tr>
<td>CHAPTER</td>
</tr>
<tr>
<td>1 INTRODUCTION</td>
</tr>
<tr>
<td>Motivation</td>
</tr>
<tr>
<td>Objectives</td>
</tr>
</tbody>
</table>

(last subheading in each chapter is double spaced)
II METHODS .......................................................... 8
  Subheading 1 ...................................................... 9
  Subheading 2 ..................................................... 10

III RESULTS ........................................................... 11
  Subheading 1 ...................................................... 12
  Subheading 2 ..................................................... 13

IV CONCLUSION(S) .................................................. 14
  Subheading 1 ...................................................... 15
  Subheading 2 ..................................................... 16

REFERENCES ......................................................... 17

APPENDIX ............................................................. 18

6. What's wrong with the Table of Contents?
   Check all that apply.
   □ Table of Contents Title Formatting
   □ Page Numbering
   □ Tabs (dots)
   □ Chapter Numbering
   □ Chapter Headings
   □ Subheadings
   □ Paragraph Spacing (Single/Double)
   □ Line Spacing (Empty Lines)
   □ Other: ____________________________________________

7. Would you like to be more specific?
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

Step 3 - Abstract

8. Is there anything wrong with the Abstract Page?
   Select No to move on to the Optional Pages.
   Mark only one oval.
   □ Yes      Skip to question 9.
   □ No       Skip to question 11.
Abstract Page

ABSTRACT (14 PT. BOLD DOUBLE SPACED)

Thesis Title in Sentence Case. (May 2015)

Student Name
Student Department
Texas A&M University

Research Advisor: Dr. Mathew Kuttalamadom
Research Advisor Department
Texas A&M University

(one double spaced empty 12 pt. line)

Start 12 pt. double spaced body text here.

9. What's wrong with the Abstract Page?
Check all that apply.

☐ Abstract Title Formatting
☐ Thesis Title and Date Formatting
☐ Student Information
☐ Research Advisor Information
☐ Body Text Formatting
☐ Paragraph Spacing (Single/Double)
☐ Line Spacing (Empty Lines)
☐ Page Numbering (Must be Page 1)
☐ Other: ____________________________

10. Would you like to be more specific?

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________

Step 4 - Optional Pages
11. Is there anything wrong with the Dedication, Acknowledgements or Nomenclature?
Select No to move on to Chapter I.
Mark only one oval.

☐ Yes  
Skip to question 12.

☐ No  
Skip to question 14.

Optional Pages

DEDICATION
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)
Start 12 pt. double spaced body text here.

2

ACKNOWLEDGEMENTS
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)
Start 12 pt. double spaced body text here.

3

NOMENCLATURE
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)
Start 12 pt. double spaced body text here.

4

12. What's wrong with the optional pages?
Check all that apply:

☐ Title Formatting
☐ Body Text Spacing
☐ Paragraph Spacing (Single/Double)
☐ Line Spacing (Empty Lines)
☐ Page Numbering
☐ Other:
13. Would you like to be more specific?


Step 5 - Chapter I

14. Is there anything wrong with Chapter I?
Select No to move on to Chapter II.
Mark only one oval.

☐ Yes  Skip to question 15.
☐ No  Skip to question 17.

Chapter I: Introduction

CHAPTER I

INTRODUCTION
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)

Start 12 pt. double spaced body text here.

(one double spaced empty 12 pt line between paragraphs)

First Order Subheadings Bold Sentence Case, Double Spaced
Second Order Subheadings Italicized Sentence Case, Double Spaced
Third Order Subheadings Regular Sentence Case, Double Spaced

15. What's wrong with Chapter I?
Check all that apply.

☐ Chapter Title Formatting
☐ Paragraph Spacing (Single/Double)
☐ Line Spacing (Empty Lines)
☐ Body Text Formatting
☐ Subheading Formatting
☐ Other:
16. Would you like to be more specific?


Step 6 - Chapter II

17. Is there anything wrong with Chapter II?
   Select No to move on to References.
   Mark only one oval.
   
   ○ Yes   Skip to question 18.
   ○ No    Skip to question 20.

Chapter II: Methods

CHAPTER II

METHODS
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)

Start 12 pt. double spaced body text here.

(one double spaced empty 12 pt line between paragraphs)

First Order Subheadings Bold Sentence Case, Double Spaced
Second Order Subheadings Italicized Sentence Case, Double Spaced
Third Order Subheadings Regular Sentence Case, Double Spaced

18. What's wrong with Chapter II?
   Check all that apply.
   
   □ Chapter Title Formatting
   □ Paragraph Spacing (Single/Double)
   □ Line Spacing (Empty Lines)
   □ Body Text Formatting
   □ Subheading Formatting
   □ Other:
19. Would you like to be more specific?

__________________________
__________________________
__________________________

Step 7 - Chapter III

20. Is there anything wrong with Chapter III?
Select No to move on to References.
Mark only one oval.

☐ Yes  Skip to question 21.
☐ No   Skip to question 23.

Chapter III: Results

CHAPTER III

RESULTS
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)

Start 12 pt. double spaced body text here.

(one double spaced empty 12 pt line between paragraphs)

First Order Subheadings Bold Sentence Case, Double Spaced
Second Order Subheadings Italicized Sentence Case, Double Spaced
Third Order Subheadings Regular Sentence Case, Double Spaced

21. What's wrong with Chapter III?
Check all that apply.

☐ Chapter Title Formatting
☐ Paragraph Spacing (Single/Double)
☐ Line Spacing (Empty Lines)
☐ Body Text Formatting
☐ Subheading Formatting
☐ Little to no results
☐ Other: __________________________
22. Would you like to be more specific?

__________________________________________________________________________________

__________________________________________________________________________________

__________________________________________________________________________________

Step 7 - Chapter IV

23. Is there anything wrong with Chapter IV?
Select No to move on to References.  
Mark only one oval.

☐ Yes  Skip to question 24.  
☐ No  Skip to question 26.

Chapter IV: Conclusion

CHAPTER IV

CONCLUSION 
(14 PT. BOLD DOUBLE SPACED)

(one double spaced empty 12 pt. line)

Start 12 pt. double spaced body text here.

(one double spaced empty 12 pt line between paragraphs)

First Order Subheadings Bold Sentence Case, Double Spaced
Second Order Subheadings Italicized Sentence Case, Double Spaced
Third Order Subheadings Regular Sentence Case, Double Spaced

24. What's wrong with Chapter IV?  
Check all that apply.

☐ Chapter Title Formatting  
☐ Paragraph Spacing (Single/Double)  
☐ Line Spacing (Empty Lines)  
☐ Body Text Formatting  
☐ Subheading Formatting  
☐ Little to no results  
☐ Other: ____________________________
25. Would you like to be more specific?


Step 8 - Figures, Tables and Equations

26. Is there anything wrong with any Figures, Tables or Equations?
Select No to move on to References.
Mark only one oval.

☐ Yes Skip to question 27.
☐ No Skip to question 29.

Figures, Tables and Equations

Equations should be 12 pt and placed where first referenced in the text.

Tables, Figures and Captions must be at least 6 pt.

Each Table and Figure must have a separate number and unique title or caption, and be referenced in the text.

The first mention of each Table of Figure must be within one page of the location of the referenced Table or Figure.

Each Figure or Table must be separated by one empty 12 pt. double spaced line before and after.

Figures and Tables must be left-justified.

Table titles must appear above the Table. Tables do not require captions.

Figures Titles or Captions must appear below the Figure and be separated by one empty 12 pt. double spaced line.

27. What's wrong with the Figures, Tables or Equations?
Check all that apply:

☐ Numbering
☐ Title or Caption
☐ Placement
☐ Line Spacing (Empty Lines)
☐ Paragraph Spacing (Single/Double)
☐ Text Formatting
☐ Other:
28. Would you like to be more specific?


Step 9 - References Page

29. Is there anything wrong with the References?
   Select No to move on to Appendix.
   Mark only one oval.
   □ Yes   Skip to question 30.
   □ No    Skip to question 32.

References Page

14pt. font size for heading; 12pt. font size for text

Scholars must select a single citation style to follow throughout their thesis.

Use double spacing between references and single spacing within a reference.

All references must be cited in the text and all in-text citations must be included in the reference section.

All text citations must be from sources the Undergraduate Research Scholar has actually used.

If footnotes are used, they must be consecutively numbered and appear at the bottom of the same page where their number appears in the text.

30. What's wrong with the References Page?
   Check all that apply.
   □ Heading
   □ Paragraph Spacing (Single/Double)
   □ Line Spacing (Empty Lines)
   □ Other: ____________________________

31. Would you like to be more specific?


11 of 13

10/16/2015 12:18 PM
Step 10 - Appendix Page

32. Is there anything wrong with the Appendix Page?
Select no to move on to Approval.
Mark only one oval.

☐ Yes  Skip to question 33.
☐ No   Skip to question 35.

Appendix Page

Appendices are optional and only used for supplementary material.

Place the appendices after the REFERENCE section in the same document. Appendices should not be a separate document.

All APPENDIX pages need to be numbered. Page numbers are continued from the last page of references.

All APPENDIX material must be within prescribed margins.

Appendix headings (Appendix designations and titles) should be bold. Titles more than one line in length must be double spaced as chapter titles.

Appendix designations (APPENDIX A, for example) are centered as major headings. Appendix titles are centered, all capital letters, and at least one double space below the designation.

Appendix Figures and Tables are numbered consecutively following the text. Material may be reduced but must conform to minimum size 6 pt. font size and legibility requirements.

Material may have mixed fonts and point sizes and may be single-spaced.

33. What's wrong with the Appendix Page?
Check all that apply.

☐ Headings
☐ Line Spacing (Empty Lines)
☐ Paragraph Spacing (Single/Double)
☐ Text Formatting
☐ Figures, Tables or Equations
☐ Other:  

34. Would you like to be more specific?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Step 11 - Approval

35. Would you nominate this student for Best Thesis?
   For either STEM or Humanities.
   Mark only one oval.
   ☐ Yes
   ☐ No

36. Is this submission approved?
   Mark only one oval.
   ☐ Yes     Stop filling out this form.
   ☐ No      Stop filling out this form.
Texas A&M University  
Departmental Request for a New Course  
Undergraduate • Graduate • Professional  
• Submit original form and attach a course syllabus. 

Form Instructions:
1. Course request type:  
   - [ ] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  
   Undergraduate Studies

3. Course prefix, number and complete title of course:  
   UGST 497 Capstone.

4. Catalog course description (not to exceed 50 words):  
   Demonstrating mastery of discipline as applied to an original problem through an 
   independent, mentored project. Public presentation of work

5. Prerequisite(s):  
   Junior or Senior Status; Admitted to the Undergraduate Service Scholars program.

   Cross-listed with:  
   Stacked with:
   Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?  
   - [ ] Yes  
   - [x] No  
   If yes, from ___ to ___

7. Is this a repeatable course?  
   - [ ] Yes  
   - [x] No  
   If yes, this course may be taken ___ times.

   Will this course be repeated within the same semester?  
   - [ ] Yes  
   - [x] No

8. Will this course be submitted to the Core Curriculum Council?  
   - [x] Yes  
   - [ ] No

9. How will this course be graded?  
   - [ ] Grade  
   - [x] S/U  
   - [ ] P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. [x] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
   UGST | 497 | CAPSTONE

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Level 3

Approval recommended by:

Department Head or Program Chair (Type Name & Sign)  
Date

Department Head or Program Chair (Type Name & Sign)  
(if cross-listed course)  
Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
The Undergraduate Service Scholars (USS) Capstone is a zero to six credit seminar course offered exclusively to students accepted to and participating in the USS Program. It is designed to be taken in two consecutive long semesters.

The Undergraduate Service Scholar Capstone is one year experience and requires 1) an application that includes a proposal of a project developed in collaboration with a community agency director, 2) participation in a service-learning community and 3) a public presentation of the work. In this program, students would propose a project for a community service organization or other group focused on community service. The project will be undertaken by the student under the oversight of the community agency or faculty advisor and relevant to the student’s major and/or career goals.

Qualifications for Acceptance in the Undergraduate Service Scholars Program: Students with a cumulative GPR of 3.0 or better and have established a working relationship with a community agency. Proposals must be approved by both the community agency or faculty director and LAUNCH. The community agency or faculty director must be willing to serve as an advisor to the student.

Course Objectives
In this course you will
- Learn how your major connects to problems in the field.
- Learn how to evaluate information and determine whether you are taking a successful approach.
- Learn how to identify unspoken assumptions.
- Learn how to deal with ambiguity and uncertainty in projecting solutions or approaches.
- Utilize this information to develop an approach a complex problem in the longer term.

Required Texts
Readings to be assigned dependent on projects chosen.

Grading and Course Requirements
This course will be graded Satisfactory/Unsatisfactory. To achieve a satisfactory grade, a student must

- (75 points) Develop a mentor-approved proposal and timeline for your project.
  - (5 pts) The mission of your agency
  - (10 pts) The problem or issue your project is hoping to address
  - (5 pts) How others have attempted to solve this issue
  - (10 pts) An overall approach that will result in a possible solution
  - (10 pts) Possible problems you may run into.
Timeline: What parts of the approach you plan to undertake each month
  - (10 pts) September
  - (10 pts) October
  - (10 pts) November
  - (5 pts) December
- (10 points) Hand in the observation exercise on time.
- (15 points) Attend the Volunteer Opportunities Fair and describe at least one community service agency you found there whose goals or missions could be related to your project (for example, one you might see collaborating with in the future).
- (60 points total, 20 points each) Hand in three reflection assignments on time.
- (150 points) Meet with your faculty or community leader mentor or designee at least once every two weeks. **You should be working on your project 10-15 hours every week of the semester unless you have an excused absence.** This will be addressed by an end-of-semester assessment by your mentor.

A total of 300 points possible. 240 points are required to earn an S for an Honors-level USS Capstone.

Late work
Proposal, exercise, and reflections will be penalized 5 points for every day they are late.

Attendance
Attendance is required except as allowed by the University rules on excused absences. If you have an excused absence it is your responsibility to complete the work that you have missed. (http://student-rules.tamu.edu/)

Need Writing Help?
- Visit the University Writing Center: http://uwcenter.tamu.edu , (979) 458-1455, 214 Evans Library.
- You can schedule a conference with your capstone mentor or Dr. Datta.

Americans with Disabilities Act (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, the legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact Disability Services at Student Services at White Creek or call 845-1637.

Aggie Honor Code
"An Aggie does not lie, cheat or steal, or tolerate those who do." Upon accepting admission to Texas A&M University a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. Additional information about the Aggie Honor Code can be found at: http://aggiehonor.tamu.edu/

The consequences for plagiarism of any kind will be dismissal from the USS Capstone program and an unsatisfactory grade in the course.
<table>
<thead>
<tr>
<th>Week</th>
<th>First Semester*</th>
<th>Due Date**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Turn in your Capstone Proposal and Timeline—work with your mentor to get his/her approval.</td>
<td>Friday Sept 4</td>
</tr>
<tr>
<td>2</td>
<td>Begin your project as planned, consult with your mentor periodically as you progress.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Attend Volunteer Opportunities Fair (Weds Sept 16th, 2406 MSC 10:30 am-2:30 pm) and complete assignment</td>
<td>Friday Sept 18</td>
</tr>
<tr>
<td>4</td>
<td>Work with your mentor to develop a plan for your scholarly product.</td>
<td>Monday Sept 21</td>
</tr>
<tr>
<td>5</td>
<td>Observation exercise</td>
<td>Monday Sept 28</td>
</tr>
<tr>
<td>6</td>
<td>Meet with mentor. Evaluate what is happening and whether your project is going as expected. Make adjustments in your plan as necessary including investigating why the unexpected is happening and how you need to alter your approach.</td>
<td>Monday Oct 12</td>
</tr>
<tr>
<td>8</td>
<td>Meet with mentor. Begin assembling drafts, outlines, sketches, or whatever is appropriate for progress towards creating your scholarly report.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Decide with your mentor what type of oral presentation of your work would be appropriate and make plans to accomplish this in your second semester.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Meet with mentor. Evaluate what is happening and whether your project is going as expected. Make adjustments in your plan as necessary including investigating why the unexpected is happening and how you need to alter your approach.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Reflection 3</td>
<td>Monday Nov 9</td>
</tr>
<tr>
<td>12</td>
<td>Meet with mentor. Evaluate what is happening and whether your project is going as expected. Make adjustments in your plan as necessary including investigating why the unexpected is happening and how you need to alter your approach.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Your mentor will submit an evaluation of your work on your project</td>
<td>Monday Dec 7</td>
</tr>
</tbody>
</table>

*You should also be working on your project (including volunteer hours at your community service) 10-15 hours/week.

**All assignments are due at 5 pm on the due date.
Texas A&M University
Departmental Request for a New Course
Undergraduate □ Graduate □ Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DPM)
2. Request submitted by (Department or Program Name): Department of Veterinary Integrative Biosciences
3. Course prefix, number and complete title of course: VIBS, 447, Neurophysiology of Music

4. Catalog course description (not to exceed 50 words):
Exploration of the inheritance and genetics of musical talent, the physiology and physics of hearing, and the neurophysiology of processing sound using primarily German and Austrian compositions

5. Prerequisite(s):

<table>
<thead>
<tr>
<th>Cross-listed with:</th>
<th>Stacked with:</th>
</tr>
</thead>
</table>

Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course? □ Yes □ No
If yes, from ________ to ________

7. Is this a repeatable course? □ Yes □ No
If yes, this course may be taken ________ times.
If No, Will this course be repeated within the same semester? □ Yes □ No

8. Will this course be submitted to the Core Curriculum Council? □ Yes □ No

9. How will this course be graded? □ Grade □ S/U □ P/F (CLMP)

10. This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.S. in Biomedical Sciences

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controles/export-controles-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
--- | --- | ---
VIBS | 447 | Neurophysiology Basis of Music

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
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<th>Acad. Year</th>
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<td>17</td>
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</table>

Approval recommended by:

Dr. Evelyn Castiglioni
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 07/14
Course title and number  VIBS 447: Neurophysiology of Music  
Term (e.g., Fall 200X)  Summer 2, 200X  
Meeting times and location  TBD  

Course Description and Prerequisites

Course Description
This course delves into the anatomy, biology, and physiology of musical capability and talent. Lectures and discussion cover a range of topics including the anatomy of the ear, the neurophysiology underlying the capacity to hear music, and the genetics of musical talent. This course is part of a study abroad program and therefore musical compositions and composers specific to Germany and Austria will be used as models during the course.

Course Prerequisites
Junior or senior classification

Learning Outcomes

Students will be able to explain what specific areas of the brain are involved in musical capability.

Students will be able to describe the current understanding of genetics underlying musical talent and heritability.

Students will be able to describe the biomechanical and neurophysiological pathways involved when hearing a musical composition.

Students will be able to explain the evolution of sound spaces, such as cathedrals and opera halls, using the physics of sound waves and physiology of hearing.

Instructor Information

Name  Micah J. Waltz  
Telephone number  979-862-8152  
Email address  mwaltz@cvm.tamu.edu  
Office hours  TBD  
Office location  47E Veterinary Teaching Hospital

Textbook and/or Resource Material

Assigned primary literature and selected music.
Grading Policies

Grading is on a pass/fail basis. To pass the course students must attend all lectures barring university approved absences. Students must participate in class discussions and write a final reflection on a topic of their choice (approved by the instructor) as part of the course.

Grading breakdown:
Journaling     Weekly entries     25%
Final Reflection    750 Words     25%
                  - Due by 11:59 PM online the last day of class
Participation     See participation rubric     50%

Attendance and Make-up Policies

Because this is a study abroad course, lectures may consist of or include museums, tours, etc. No makeup work is accepted except for university-excused absences. The full list is available at http://student-rules.tamu.edu/rule07.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Genetics of musical talent</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>1</td>
<td>Molecular biology of music</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>2</td>
<td>Heritability of musical talent</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>2</td>
<td>Musical savant syndrome</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>3</td>
<td>Neurophysiology of musical processing</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>3</td>
<td>Neuroplasticity</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>4</td>
<td>Physiology/anatomy of sound production:</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td></td>
<td>mouth, voice, and hands</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>4</td>
<td>Physiology of sound perception/reception</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>5</td>
<td>Physics of soundwaves</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td>5</td>
<td>Acoustics</td>
<td>Assigned primary literature</td>
</tr>
<tr>
<td></td>
<td>- Final Reflection due by 11:59 PM</td>
<td></td>
</tr>
</tbody>
</table>

Other Pertinent Course Information

Reflective Writing

Reflective writing is a process where you write about your thoughts within the context of course material and other information. During the reflective process, you examine your understanding of and
assumptions about the course material, identify concepts you agree or disagree with, and support your claims and conclusions with primary literature. The kind of reflective writing you will be doing is not merely descriptive or informative like a diary or journal should be, nor is it written just to yourself. This is a metacognitive process that requires you to be able to analyze, evaluate, and share your thought processes with an educated reader. It is critical reflective writing.

Lectures will include tours of facilities in Germany and Austria. Listening to composers will provide context for the scientific information in the course.

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu)

**Academic Integrity**

*For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)*

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Dear Micah (if I may),

What a wonderful course -- I have absolutely no objection at all to VIBS teaching Neurophysiology of Music.

A few questions --

1. Co-enrollment with History of Medicine is required -- would PERF students have to co-enroll? Past experience tells me students might not be able to register for History of Medicine, unless it filled a core requirement, but might want to take the music component on its own.
2. The course is pass-fail and only 3 weeks duration, so our students would have to have room for this w/u grade and be willing to take a 3 week course. It could serve as the basis for a capstone, practicum, or final project in composition or sound design.
3. It is not clear how many credits students would earn if taken without the co-enrollment -- perhaps we could work that out.

Let us pursue with Steve Oberhelman!

Donnaale

---

On Sep 22, 2015, at 6:44 PM, Waltz, Micah I wrote:

Dear Dr. Waltz,

Dr. Oberhelman suggested I contact you. I'm in the process of developing a course on the Neurophysiology of Music. It will focus on the anatomy and neural processing involved in the perception and performance of music. Would your program object to us teaching such a course? We won't focus on music per se, but as context for how the brain receives sensory information and generates actions. Initially, we plan to teach as part of a semester abroad in Germany. In the future, we may make it available on main campus. Dr. Oberhelman thought, if you were willing, we could cross-list it so the Performance students could take it for credit. I would be happy to discuss that possibility with you. I've attached the syllabus--let me know your thoughts.

Micah I. Waltz | Lecturer
Veterinary Integrative Biosciences | Texas A&M
4405 TAMU | College Station, TX 77843-4408
979-862-8132

---Ad espere ad extra

<syllabus for neurophysiology of music.doc>
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (M.D., J.D., Ph.D., Pharm.D.)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
3. Course prefix, number and complete title of course: IDIS 450 Analytics for Distribution Operations
4. Catalog course description (not to exceed 50 words):
   Fundamental concepts in data analytics in distribution operations; using data management tools to process transaction data into useful information; various statistical and analytical models to make strategic decision making; predictive analytics, simulation and risk analysis, linear optimization, and data mining.

5. Prerequisite(s):
   "C" grade or better in IDIS 343 and IDIS 344
   Cross-listed with: [Signature]
   Stacked with: [Signature]

6. Is this a variable credit course? ☐ Yes ☑ No
   If yes, from ______ to ______

7. Is this a repeatable course? ☑ Yes ☐ No
   If yes, this course may be taken ______ times.

8. Will this course be repeated within the same semester? ☐ Yes ☑ No

9. Will this course be submitted to the Core Curriculum Council? ☑ Yes ☐ No

10. How will this course be graded? ☑ Grade ☐ S/U ☐ P/F (CLMD)

11. This course will be:
   a. Required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. An elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

B.S. in Industrial Distribution

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://www.tamu.edu/resources/export-control/出口-control-basics-for-distance-education).

13. Prefix Courses Title (excluding parentheses)

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<th>Course #</th>
<th>Title (excluding parenthsis)</th>
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Approval recommended by:

Dr. Reza Langari
Department Head or Program Chair (Type Name & Sign) [Signature]
Date [Date]

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services

Received by Curricular Services at 2:42 pm, Aug 13, 2015

Received by Curricular Services at 11:20 am, Aug 17, 2015
IDIS 450  
Analytics for Distribution Operations  
Spring 2016

Instructor: 
Dr. Manoj Vanajakumari  
Industrial Distribution Program  
Department of Engineering Technology and Industrial Distribution  
Texas A&M University, TX – 77843-3367.  
Phone: 979-458-1197  
Email: manojuv@tamu.edu

Course Webpage:  
http://ecampus.tamu.edu/

Class Time: 
Section 501: Tue–Thu: 11:10 – 12:25 pm

Office Hours: 
Tue, Thu: 11:00 – 12:00 pm  
Or by appointment (FERM 203C)

Textbook: 
Business Analytics - Methods, Models and Decisions by James R. Evans

TA: 
TBA

1. Class Announcements:  
Announcements will be made through eCampus (ecampus.tamu.edu) TAMU email. **Make it a habit to read them regularly.**

2. Course Description:  
This course introduces students to fundamental concepts in data analytics in distribution operations. Using spreadsheet environment, the students learn how to process transaction data into useful information. This course exposes students to various statistical and analytical models to make strategic decision making. The students learn predictive analytics, simulation and risk analysis, linear optimization, and data mining.

3. Learning Outcomes:
   - Learn how to convert transaction data into meaningful information  
   - Examine how Microsoft Excel tools can be used for business analytics  
   - Recognize the importance of conducting business risk analysis  
   - Examine how optimization models can bring efficiency in business operations

4. Prerequisite:  
“C” grade or better in IDIS 343 and IDIS 344

5. Course structure and grading:  
The course includes lectures, assignments, in-class exercises and quizzes. Course grades are distributed as follows: Quizzes (13.3%), assignments (33.3%), Exams (53.3%). This class will be evaluated strictly on a point system. **Under no circumstances extra work will be given to an individual to improve his/her score.**

<table>
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<tr>
<th>5.1 Grade component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
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<tr>
<td>Assignments</td>
<td>200</td>
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<tr>
<td>Exam 1</td>
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<tr>
<td>Exam 2</td>
<td>160</td>
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<td><strong>Total</strong></td>
<td><strong>600 points</strong></td>
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</table>
5.2 Grading structure

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<tr>
<th>GRADE</th>
<th>POINTS NEEDED</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>540 and above</td>
</tr>
<tr>
<td>B</td>
<td>480-539</td>
</tr>
<tr>
<td>C</td>
<td>420-479</td>
</tr>
<tr>
<td>D</td>
<td>360-419</td>
</tr>
<tr>
<td>F</td>
<td>Below 360</td>
</tr>
</tbody>
</table>

6. Quizzes and Assignments:
You will have to login to eCampus to take a quiz. Password will be provided at the beginning of the class to open and complete the quiz. No makeup quizzes will be given without any university excused absence. Every topic of this course will have an assignment to be completed and the due date is one week from the date of assigning. Quizzes and assignments will serve to reinforce the concepts taught in the class.

7. Exams:
Each exam will cover assignments, in-class discussions, and lecture materials. All exams will be closed-book, unless otherwise specified.

8. Student with disabilities:
If you feel you are entitled to special accommodations because of a disability, please see me within the first two weeks of the class.

9. Attendance and Late Work Policy:
You are expected to attend all lectures. If an exam or assignment is missed due to an approved university absence or due to a genuine reason, you must inform me no later than **48 hours after the date of absence (before the exam if possible)**, and you must furnish me original documentation (copies will not be accepted) why your absence should be excused. There will be no make-ups for missed exams without a university-approved excuse as defined in the Texas A&M University Regulations. You can find the University’s rules regarding this matter at [http://studentrules.tamu.edu/rule07](http://studentrules.tamu.edu/rule07). An exam that is missed without an approved excuse will be assigned a grade of ZERO.

10. Official statement:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services, Cain Hall, Room B118 or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

11. Academic Integrity Statement and Policy:
"An aggie does not lie, cheat or steal, nor tolerate those who do" – The Aggie Honor Code.
The honor council rules and procedures can be found at: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)
The Texas A&M University Regulations defines several categories of Scholastic Dishonesty.
(1) Acquiring or attempting to acquire information (this includes OBSERVING THE WORK OF OTHERS DURING AN EXAM)
(2) Providing information on quizzes or exams
(3) Plagiarism
(4) Conspiracy to commit any of the above
(5) Fabrication of information
(6) Violation of Departmental or College policies.
Understand that the University definition of Scholastic Dishonesty will be strictly followed and any student caught providing or receiving assistance in an exam or quiz will immediately be given a grade of “F” for the course. Cheating in class will not be tolerated.

If you need extra help in understanding the course materials, I can assist you in any appropriate way that I can. **Have a great semester!**

### Tentative Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Topics Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Introduction to Analytics and Course Overview</td>
<td>Introduction to course, Descriptive Statistics Measures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mean, Median, Mode, Range, Visualizing and Exploring Business Data</td>
</tr>
<tr>
<td>Week 2</td>
<td>Sampling and Estimation</td>
<td>Statistical sampling, Confidence and Prediction intervals</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confidence and Prediction intervals</td>
</tr>
<tr>
<td>Week 3</td>
<td>Statistical inference</td>
<td>Hypothesis testing (One sample and two sample tests), ANOVA</td>
</tr>
<tr>
<td></td>
<td>Statistical inference</td>
<td>Hypothesis Testing: Distribution Examples</td>
</tr>
<tr>
<td>Week 4</td>
<td>Predictive Modeling and Analysis</td>
<td>Pricing Markdown Models</td>
</tr>
<tr>
<td></td>
<td>Predictive Modeling and Analysis</td>
<td>What if Analysis, Data tables, Scenario Manager, Goal Seek</td>
</tr>
<tr>
<td>Week 5</td>
<td>Regression analysis</td>
<td>Simple linear regression, Multiple linear regression models</td>
</tr>
<tr>
<td></td>
<td>Regression analysis</td>
<td>Modeling Exercises in Distributor Operations</td>
</tr>
<tr>
<td>Week 6</td>
<td>Simulation and Risk Analysis</td>
<td>New product development model, Overbooking model</td>
</tr>
<tr>
<td>Week 7</td>
<td>Simulation and Risk Analysis</td>
<td>New product development model, Overbooking model</td>
</tr>
<tr>
<td>Week 8</td>
<td>Data mining</td>
<td>Data exploration and Reduction, Classification techniques, Association rule mining and Cause-and-Effect modeling</td>
</tr>
<tr>
<td>Week 9</td>
<td>Data mining</td>
<td>Market Basket Analysis</td>
</tr>
<tr>
<td>Week 10</td>
<td>Linear Optimization</td>
<td>Building and solving simple Linear optimization models</td>
</tr>
<tr>
<td>Week 11</td>
<td>Linear Optimization</td>
<td>Facility Location Models</td>
</tr>
<tr>
<td></td>
<td>Linear Optimization</td>
<td>Facility Location Models</td>
</tr>
<tr>
<td>Week 12</td>
<td>Optimization with uncertainty</td>
<td>Monte Carlo Simulation Models</td>
</tr>
<tr>
<td></td>
<td>Optimization with uncertainty</td>
<td>Pricing Model with Uncertainty</td>
</tr>
<tr>
<td>Week 13</td>
<td>Project</td>
<td></td>
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<tr>
<td>--------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Week 14</td>
<td>Project Presentations</td>
<td></td>
</tr>
<tr>
<td>Week 15</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>

*These description and timelines are subject to change at the discretion of the instructor.*
Hi Sandra,

I got the following response from INFO department. Please let me know if this would suffice as a Support Letter for IDIS 450.

Thanks,

--Manoj

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Thanks,

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Thanks,

--Manoj

---

I support the inclusion of this course in the Industrial Distribution curriculum.

However, I cannot state that there is “no overlapping content” between this course and what the INFO Department offers in the business school. Virtually the entirety of the course is offered as portions of several business school courses. Basic statistics and regression is taught in SCMT 303, linear optimization is taught in SCMT 336, and the other portions of the course are taught in other classes. I am relatively certain that basic statistics is taught in the Statistics Department as well. Since Industrial Distribution students cannot register for these courses, I see no harm in the duplication.

---

Rich Metters | Head, Department of Information Systems and Operations Management
Mays Business School | Texas A&M University
320 Wehner | 4217 TAMU | College Station, TX 77843-4217

ph: 979.845.1148 | rmetters@mays.tamu.edu
---

WE STEP UP mays.tamu.edu
Hi Sandra,

I received the letter of support for IDIS 450 from STAT department as well. Please see the email from Dr. Michael Longnecker. I have also addressed the issues you mentioned on the syllabus. Please find the revised syllabus attached.

Hope, IDIS 450 can now be a course in ID curriculum.
Thanks,
--Manoj

Manoj Vanajakumari, Ph.D
Associate Professor,
Industrial Distribution Program,
Texas A&M University, College Station, TX - 77843
Email: manojuv@tamu.edu, Phone: 979-458-1197, Office: Fermier 203C

From: Michael Longnecker
Sent: Friday, October 16, 2015 3:41 PM
To: Vanajakumari, Manoj N <manojuv@tamu.edu>
Subject: RE: Letter of Support for a course.

Dear Manoj,

That is perfect.
We will have no objections to your course.

Best,

Michael

Dr. Michael Longnecker
Professor/Associate Dept Head
Department of Statistics
Texas A&M University
College Station, TX 77843
979-845-3141
Dear Dr. Longnecker,

Thank you very much. We have kept our STAT requirement as such in our revised curriculum. Please find attached a copy of our new catalog that we have submitted to Sandra Williams at UCC. I will forward your email to Sandra.

Thank you,
--Manoj

Manoj Vanajakumari, Ph.D
Associate Professor,
Industrial Distribution Program,
Texas A&M University, College Station, TX - 77843
Email: manojuv@tamu.edu, Phone: 979-458-1197, Office: Fermier 203C

From: Michael Longnecker
Sent: Friday, October 16, 2015 1:39 PM
To: Vanajakumari, Manoj N <manojuv@tamu.edu>
Subject: RE: Letter of Support for a course.

Dear Professor Vanajakumari,

The Department of Statistics has no objections to your new course provided we have an assurance that STAT 201 or STAT 211 or STAT 303 are not dropped as required courses from your curriculum.

Thank you

Michael

Dr. Michael Longnecker
Professor/Associate Dept Head
Department of Statistics
Texas A&M University
College Station, TX 77843
979-845-3141

From: "Vanajakumari, Manoj N" <manojuv@tamu.edu>
Date: Thursday, October 15, 2015 at 9:50 AM
To: Valen Johnson <vjohnson@stat.tamu.edu>
Subject: Letter of Support for a course.

Dear Dr. Johnson,

I am a faculty member in the Engineering Technology and Industrial Distribution Department.

The Industrial Distribution program is revising the curriculum and we would like to add a course on Analytics for Distributor Operations. I have offered this course last year as a special topics course. This summer while I was trying to get a permanent course number, the undergraduate curriculum committee (UCC) has recommended me to get a letter of support from your department and the INFO department. I am attaching my syllabus for your reference. I hope you won't have any objections in my department offering this course. If you don't have any objections could you please state that in your reply to this email. That would suffice as the letter of support.
The course is meant only for the Industrial Distribution students. The entire focus of the course is on distributor operations and the class projects are supported by Industrial Distributors. We have a hard deadline to meet when the UCC meets next on October 23.

Thank you,
--Manoj

Manoj Vanajakumari, Ph.D
Associate Professor,
Industrial Distribution Program,
Texas A&M University, College Station, TX – 77843
Email: manojuv@tamu.edu, Phone: 979-458-1197, Office: Fermier 203C
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  ✔ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  Department of Public Health Studies
3. Course prefix, number and complete title of course:  PHLT 484 Public Health Studies Field Experience
4. Catalog course description (not to exceed 50 words):  On the job training in the area of public health studies industry; development of objectives and goals; evaluation by supervisor required.

5. Prerequisite(s):  Approval of department head; PHLT major with a minimum overall 3.0 TAMU GPA.

6. Is this a variable credit course?  □ Yes  ✔ No  If yes, from _____ to _____
7. Is this a repeatable course?  □ Yes  ✔ No  If yes, this course may be taken _____ times.
8. Will this course be repeated within the same semester?  □ Yes  □ No
9. Will this course be submitted to the Core Curriculum Council?  □ Yes  ✔ No
10. How will this course be graded?  ✔ Grade  □ S/U  □ P/F (CLMD)
11. This course will be:  
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   B.S., Public Health

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
13. Prefix  Course #  Title (excluding punctuation)
   PHLT  484  Public Health Studies Field Ex
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   3.00  0.00  2.00  3.00  5122010014  2414  15 - 16  0  0  3  6  3  2

   Approval recommended by:
   Gilbert Ramirez  Date

   Department Head or Program Chair (Type Name & Sign)

   Department Head or Program Chair (Type Name & Sign)  Date

   Ranjana Mehta  Date
   Chair, College Review Committee

   Jay Maddock  Date
   Dean of College

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   Effective Date  10/23/15

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Instructor Information

Course title and number: PHLT 484 Public Health Studies Field Experience
Term: Spring 2016
Meeting times and location: TBD

Instructor Name(s)

Teaching Assistant(s)
Telephone number: 979.436.XXX
Email address: TAMU email
Office hours: At least 5 on at least 2 days
Office location: SPH AXXX

Course Description

This course provides opportunities for learning and training experiences in the field of Public Health which are appropriate to the student's career goals; professional supervision required. Payment for the training/field experience is optional. The following are typical examples of jobs for which credit may be granted: Shadowing a public health professional (this should involve some contact with clients in practice setting); Working as a public health professional (employment as a program assistant); Working in public health research (employment in a research laboratory). The student will receive 2 hours of PHLT directed elective credit upon completion of the course requirements (S/U grade). If the student is obtaining 485 credit for the field experience, then 484 credit will not be granted.

Prerequisites

Approval of department head, PHS major with a minimum overall 3.0 TAMU GPA.

Learning Outcomes and Course Objectives

By completing the class assignments, through participation and by completing the readings, the student will be able to:

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Learning Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Goal 1.</strong> Understand the history, ethics, and traditions of the field of public health.</td>
<td>• Objectives will be specific to student experience.</td>
</tr>
<tr>
<td>Describe the history, ethics, and traditions of public health to include its core values, concepts and functions in society.</td>
<td></td>
</tr>
<tr>
<td><strong>Program Goal 2.</strong> Value the scope and nature of problems and challenges addressed by the field of public health.</td>
<td>• Objectives will be specific to student experience.</td>
</tr>
<tr>
<td>Describe socioeconomic, behavioral, biological, environmental and other factors that impact population health and</td>
<td></td>
</tr>
<tr>
<td>Program Goal 3. Appreciate the breadth, depth and variety of intellectual and practical skills employed in the field of public health.</td>
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</tr>
<tr>
<td>Illustrate basic concepts related to data in public health including, collection tools and methods, analysis, and reporting with understanding of why evidence-based approaches are essential.</td>
<td></td>
</tr>
<tr>
<td>Employ basic intervention processes and approaches to address public health concerns of populations.</td>
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</tr>
<tr>
<td>Apply fundamental concepts and features of project implementation, including planning, assessment and evaluation.</td>
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</tr>
<tr>
<td>Identify basic concepts of legal, ethical, economic and regulatory dimensions public health and the roles, influences and responsibilities of government, private sector and other stakeholders.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program Goal 4. Appreciate the variety of communication methods and cultural competence required in the field of public health.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate basic concepts of public health-related communication, including culturally competent technical and professional writing and the use of other communication tools.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Textbook and/or Resource Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
</tr>
</tbody>
</table>
Course Topics, Calendar of Activities, Major Assignment Dates

Topics and Activities will be specific to student experience

Grading Policies

Your final grade will consist of the following assignments:

1. **Sixty (60) documented hours of work experiences.** The PHLT 484 Instructor must approve the work before enrolling in the course. The attached form can be used to document the hours. (36 points)

2. **Field experience completion letter.** The student's supervisor must provide a letter certifying that the student has satisfactorily completed all the requirements of the field experience. The completion letter should be addressed to the PHLT 484 Instructor and should be on letterhead and signed by the student's supervisor. Comments by the supervisor are welcome, but not required. (32 points)

3. **Final written report.** The student must provide a brief overview of their PHLT 484 activities and summarize their overall experiences and impressions. Areas for discussion may include ascertained strengths, weaknesses, ethical struggles and any unique or unusual experiences. This report should be approximately one page in length (12 pt font, 1.5 line spacing, 1" top/bottom margins, 1.25" left/right margins). (32 points)

The grading scale will be as follows:
70-100 points = S
69-0 points = U

Due Date:
All assignments (documentation of work hours, completion letter and final report) are due by 4pm last class day of semester (e.g. before reading days). All work not turned in by this date and time will receive a grade of zero for that assignment and a final grade for the course (U) will be assigned accordingly.

Attendance and Make-up Policies

**Attendance:** Attendance is expected in this class. All students are expected to arrive on time and be ready to actively participate in lecture every day.

A university-excused absence is the only excuse acceptable for missing an assignment credit. For information regarding what constitutes an excused absence, please see http://student-rules.tamu.edu/rule07. For absences related to illness, confirmation of a visit to a health care professional will be required. For other university-excused absences, please see your advisor to ascertain the documents needed to confirm your absence.

Unexcused assignments will result in a grade of a 0, for missed assignments.

If an absence is excused, the instructor will either provide the student an opportunity to make up any work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://student-rules.tamu.edu/rule07)

The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student
must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

**Other Pertinent Course Information**

Every effort will be made to ensure that power point lecture files, notes, articles and assignments are available online in a timely manner. Written assignments will be delivered thru the eCampus course website. Handouts, changes in assignments or the schedule of class modules will be announced on the eCampus course webpage. E-mail contact will be initiated with all students the first week of class.

**eCampus**

If this course uses eCampus: Within the course’s eCampus site you will access the learning materials, tutorials, and syllabus; discuss issues; submit assignments; take quizzes; email other students and the instructor; participate in online activities; and display your projects.

In order to access the course material you will need to go to login into Howdy and then click the eCampus button on the top right or look for Quick Links on the bottom of the School’s homepage or go to http://ecampus.tamu.edu Please do not contact your instructor with technical problems. If you are having a technical problem with the course, review the Blackboard Learn Tutorials, (at the top-right of School’s Office of Academic Assessment and Instructional Technology website), or contact John C. Lingsweller in the School’s Office of Academic Assessment and Instructional Technology. John may be reached at (979) 436-9409 or at lingsweller@sph.tamhsc.edu For login issues (password not working), please contact TAMU Help Desk at helpdesk@tamu.edu via E-mail, or phone to (979) 845-8300. Your eCampus login is the same as your Howdy login (NetID).

**Computer Requirements for Online Courses**

For this and all online courses we recommend the minimum technical requirements outlined on our “SPH Computer Requirements for Online Courses” web page, located at http://www.sph.tamhsc.edu/assessment-instructional/com-requirement.html#distance-education/technical-specifications.html

All computing problems or other technical issues not related to eCampus, please contact:

- TAMHSC related account: helpdesk@tamhsc.edu via E-mail, or phone to (979) 862-8029
- TAMU related account: helpdesk@tamu.edu via E-mail, or phone to (979) 845-8300

**Important!!!** Save your work as you go along. Nothing is more discouraging than to lose an assignment due to a computer hang ups! You may want to also make hard copies of your work to have "proof" and save yourself time and trouble!

**Plagiarism Virtual Course**

Plagiarism is the leading form of academic dishonesty that the School of Public Health has to address. As a SPH student, you are responsible for knowing what plagiarism is and how to avoid it. All SPH students are automatically enrolled in Plagiarism Virtual Course on eCampus. This virtual course provides you with information and examples related to plagiarism in an effort to reduce the number of reported incidents. Please find a tutorial and resources under "Content." In addition, please find Turnitin, a software package that allows you to check whether you may have plagiarized your document. Please see Phuong Huynh: phuongc@sph.tamhsc.edu for additional information.

**Reference Formatting**

All PHLT course writing assignments require student use the APA referencing format. Students are encouraged to become familiar with referencing software (e.g. RefWorks or EndNote) but are responsible
in assuring appropriate citation styles are used.

TAMU Library Website on Citations: http://guides.library.tamu.edu/CitingSources

Purdue OWL APA Format Website: https://owl.english.purdue.edu/owl/resource/560/01/

Additional details on appropriate citation and how to avoid plagiarism can be found in the Virtual Plagiarism Course section of the syllabus.

End of Course Evaluation

Constructive feedback from students on course evaluations is taken very seriously at the School of Public Health. I am asking for your assistance in helping the School in its assessment of courses and faculty through your participation in the evaluation of your courses. As public health professionals you will one day have the responsibility to evaluate colleagues and health initiatives. The School views providing feedback on the School's courses as part of your professional responsibility.

SPH Mission

Our mission is to create and apply knowledge acquired from the disciplines of public health to the education of public health leaders and practitioners through our research, practice, and service in the state of Texas, nationally, and globally.

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity

Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Students are expected to adhere to all TAMUS, TAMU, HSC, and School policies regarding academic integrity and classroom conduct. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used, or tampering with the academic work of another student. Individuals found guilty of academic dishonesty may be dismissed from the degree program, and at a minimum will receive an F for the course. It is the student's responsibility to have a clear understanding of how to reference other individuals' work, as well as having a clear understanding in general as to the various aspects of academic dishonesty. A tutorial on this issue is available at: http://SPH.tamhsc.edu/academic-affairs/academic-integrity.html.

Information on the Aggie Honor Code can be found at http://aggiehonor.tamu.edu.

Remember:
"An Aggie does not lie, cheat, or steal, or tolerate those who do."

Copyright Statement

The materials used in this course are copyrighted. These materials include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless permission is expressly granted by the instructor.
FERPA

The Federal Education Rights & Privacy Act requires that we advise students that by registering for this course, their HSC assigned e-mail address will be revealed to classmates and the instructor. By continuing your enrollment in the course you acknowledge your understanding of this policy. By enrolling in this course you agree to the following statement: “I understand that as a result of registering for this course, my HSC/Blackboard assigned e-mail address will be revealed to classmates and the instructor.”

Equal Opportunity Statement

The Texas A&M Health Science Center is an Equal Opportunity/ Affirmative Action employer. Inquiries regarding nondiscrimination policies may be directed to the Human Resources Officer by phone at (979) 436-9208, email hr@tamhsc.edu, or by mail at 200 Technology Way, College Station, TX 77845.

DISCLAIMER

This syllabus is representative of materials that will be covered in this class. It is subject to change. These changes will be communicated via email or posted as announcements. If you have any problems related to this course, please feel free to discuss them with the instructor.

Title IX

Title IX of the Education Amendments of 1972 protects people from sex discrimination in educational programs and activities at institutions that receive federal financial assistance. Texas A&M University and the Texas A&M Health Science Center are committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, the University does not discriminate on the basis of sex in its education programs and activities, and it encourages any student or non-student who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct by another student, member of the faculty or staff, or campus visitor or contractor, to immediately report the incident to any of the individuals persons or offices listed below.

WHERE TO REPORT:
James Nachlinger,
Executive Director, Payroll and HR Services
Title IX Coordinator
979-436-9207
nachlinger@tamhsc.edu

The University encourages students to immediately consult with or report incidents of sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to the TAMHSC Title IX Coordinator. Students may also report incidents of sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to any School of Public Health administrator, university administrator, official or unit supervisor, who is then responsible for promptly notifying any of the above Title IX coordinators of the reported incident.
WITHDRAWAL OF COURSES
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:
   - Undergraduate ✓
   - Graduate □
   - First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering
3. Course prefix, number and complete title of course:
   - CVEN 333 - Project Management for Engineers

   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below:

4. Change requested:
   a. Prerequisite(s):
      - From: ____________________________
      - To: ____________________________
   b. Withdrawal (reason):
      - Course will be replaced by ENGR 333 - Project Management for Engineering
   c. Cross-list with:

      Cross-listed courses require the signature of both department leads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   - Yes □
   - No ✓

6. If grade type is changing for existing course, indicate the new grade type:
   - Grade □
   - S/U □
   - P/F (CLMD) □

7. If this course will be stacked, please indicate the course number of the stacked course:
   - I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

     8. ____________________________

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):


11. Change to:

   a. As currently in course inventory:

      | Prefix | Course # | Title (excluding punctuation) |
      |--------|----------|-------------------------------|
      |        |          |                               |

      | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
      |-------|-----|-------|-----|------------------|-------------|-----------|-------|
      |       |     |       |     |                  |             | 0 0 3 6 3 2 |       |

   b. Change to:

      | Prefix | Course # | Title (excluding punctuation) |
      |--------|----------|-------------------------------|
      |        |          |                               |

      | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
      |-------|-----|-------|-----|------------------|-------------|-----------|-------|
      |       |     |       |     |                  |             | 0 0 3 6 3 2 |       |

   Approval recommended by: 9/16/15
   - Chair, College Review Committee 9/24/2015
   - Dean of College 9/24/2015
   - Chair, GC or UCC 9/25/2015

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@curriculumservices.tamu.edu
Supporting Statement for withdrawal of cross-listed courses: CVEN 333, ISEN 333, and MEEN 333 – Project Management for Engineers

The Dwight Look College of Engineering is creating a new minor, “Engineering Project Management”. CVEN 333, ISEN 333, and MEEN 333 will be replaced by a new course, ENGR 333 – Project Management for Engineers.”
Texas A&M University
Departmental Request for a Change in Course
Undergraduate □ Graduate □ Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:  □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Industrial and Systems Engineering
3. Course prefix, number and complete title of course: ISEN 333 - Project Management for Engineers

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): Course will be replaced by ENGR 333 - Project Management for Engineering
   c. Cross-list with: ___________________________

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLTD)
7. If this course will be stacked, please indicate the course number of the stacked course: □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level

   a. Change to:

   Prefix  Course #  Title (excluding punctuation)
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level

   Approval recommended by:
   Chair, College Review Committee  9/24/2015
   Dean of College  9/24/2015
   Chair, GC or UCC  Date
   Effective Date  12/25/2015

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Supporting Statement for withdrawal of cross-listed courses: CVEN 333, ISEN 333, and MEEN 333 – Project Management for Engineers

The Dwight Look College of Engineering is creating a new minor, “Engineering Project Management”. CVEN 333, ISEN 333, and MEEN 333 will be replaced by a new course, ENGR 333 – Project Management for Engineers".
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

* Submit original form and attachments *

Form Instructions
1. Course request type: 
   - Undergraduate □ Graduate □ First Professional (DO, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Mechanical Engineering
3. Course prefix, number and complete title of course: MEEN 333 - Project Management for Engineers
   - Attach a brief supporting statement for changes made to items 4a thru 4f, and 10 below.
4. Change requested
   a. Prerequisite(s): From: __________________________ To: __________________________
   b. Withdrawal (reason): Course will be replaced by ENGR 333 - Project Management for Engineers
   c. Cross-list with: __________________________
   - Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
   - Yes □ No □
6. If grade type is changing for existing course, indicate the new grade type:
   - Grade □ S/U □ P/F (CL/MID)
7. If this course will be stacked, please indicate the course number of the stacked course:
   - I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Supporting Statement for withdrawal of cross-listed courses: CVEN 333, ISEN 333, and MEEN 333 – Project Management for Engineers

The Dwight Look College of Engineering is creating a new minor, “Engineering Project Management”. CVEN 333, ISEN 333, and MEEN 333 will be replaced by a new course, ENGR 333 – Project Management for Engineers”.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ✔ Undergraduate  □ Graduate  □ First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Psychology
3. Course prefix, number and complete title of course: PSYC 405

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): this course has not been taught in years, and we have no instructor to cover it
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes  ✔ No

6. If grade type is changing for existing course, indicate the new grade type: □ Grade S/U □ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   PSYC 405/RELS 405 Psychology of Religion Credits 3. 3 Lecture Hours. Review of world's religions and the psychological study of the religious experience; religion within the context of personality; religious development through social interactions; religion in psychological research and therapy. Prerequisites: PSYC 306 and PSYC 330 or approval of instructor. Cross-listing: RELS 405/PSYC 405.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. As currently in course inventory:

   a. Prefix  Course #  Title (excluding punctuation)
   PSYC  405  Psychology of Religion
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   3.00  0.00  0.00  3.00  3802010001  2380 0 0 3 6 3 2 4

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   0 0 0 0 0 0 0 0 0 3 6 3 2

   Approval recommended by:
   Douglas Woods
   Date 9/30/15
   Department Chair or Program Chair (Type Name & Sign)

   Donnalee Box
   Date 7/10/15
   Department Chair or Program Chair (Type Name & Sign)

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

   Chair, College Review Committee
   Date 10-20-15
   Dean of College
   Date
   Chair, GC or UCC
   Date
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Supporting Statement for Withdrawal of PSYC405

- The course has not been offered in years and we do not have faculty who can teach this course.
CHANGE IN COURSES
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
- Submit original form and attachments -

Form Instructions
1. Course request type:  ✔ Undergraduate  [ ] Graduate  [ ] First Professional (e.g., DVM, JD, MD, etc.)
2. Request submitted by (Department or Program Name): Africana Studies Program
3. Course prefix, number and complete title of course: AFST 204 Introduction to African-American Literature

| Change requested | ENGL 104 | none |

a. Prerequisite(s): From: ____________________________ To: ____________________________
b. Withdrawal (reason): ____________________________
c. Cross-list with: ____________________________

d. Change in course title and description. Enter complete current course title and current course description in Item 5; enter proposed course title and proposed course description in Item 6. Complete Item 7 for change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete Item 7. Attach a course syllabus.

5. Is this an existing core curriculum course?  ✔ Yes  [ ] No

6. If this course will be stacked, please indicate the course number of the stacked course: ____________________________

7. ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpt.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. a. As currently in course inventory:

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b. Change to:

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Approval recommended by: ____________________________

Department Head or Program Chair (Type Name & Sign)  Date  ____________________________
Chair, College Review Committee  Date  ____________________________
Department Head or Program Chair (Type Name & Sign)  Date  ____________________________
Dean of College  Date  ____________________________

Submitted to Coordinating Board by: ____________________________
Chair, GC or UCC  Date  ____________________________

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 04/14

RECEIVED
OCT 23 2015
CURRICULAR SERVICES
September 7, 2015

MEMORANDUM

TO: Steven Oberhelman, Associate Dean of Undergraduate Programs
FROM: Violet Johnson, Director, Africana Studies Program
SUBJECT: Prerequisite change for Course AFST 204

AFST 204, Introduction to African-American Literature, is cross-listed with ENGL 204. ENGL removed the prerequisite of ENGL 104 from ENGL 204, therefore AFST would like to remove the prerequisite of ENGL 104 from AFST 204 in order to coordinate with ENGL 204.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (e.g., EFM, JD, MD, etc.)
2. Request submitted by (Department or Program Name): Africana Studies Program
3. Course prefix, number and complete title of course: AFST 205 Introduction to Africana Literature

4. Change requested:
   a. Prerequisite(s): From: ENGL 104 To: none
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads:

d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

5. Is this an existing core curriculum course? [ ] Yes [ ] No

6. If this course will be stacked, please indicate the course number of the stacked course:

7. [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vet.tamu.edu/resources/export-controls/export-control-basics-for-distance-education)

8. Complete current course title and current catalog course description:

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Approval recommended by: [Signature]
Date: 9/8/15

Chair, College Review Committee:
[Signature]
Date: 10/21/15

Dean of College:
[Signature]
Date: 9/16/15

Submitted to Coordinating Board by:
Associate Director, Curricular Services
[Signature]
Date: Oct 23, 2015

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu
Curricular Services - 06/14
September 7, 2015

MEMORANDUM

TO: Steven Oberhelman, Associate Dean of Undergraduate Programs
FROM: Violet Johnson, Director, Africana Studies Program
SUBJECT: Prerequisite change for Course AFST 205

AFST 205, Introduction to African-American Literature, is cross-listed with ENGL 205. ENGL removed the prerequisite of ENGL 104 from ENGL 205, therefore AFST would like to remove the prerequisite of ENGL 104 from AFST 205 in order to coordinate with ENGL 205.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✺ Graduate ✺ Professional
- Submit original form and attachments -

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (D.D.S., M.D., J.D., PharmD, D.V.M.)
2. Request submitted by (Department or Program Name): Department of Biological and Agricultural Engineering
3. Course prefix, number and complete title of course: AGSM 301: Systems Analysis in Agriculture

Attach a brief supporting statement for changes made to Items 4a thru 4d and 10 below.

4. Change requested
   a. Prerequisite(s): From: " Junior or senior classification;" To: MATH 141 and MATH 142 with a "C" or better
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ Pass/Fail (P/F)
7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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Approval recommended by:

Stephen W. Searcy 9/11/15
Department Head or Program Chair (Type Name & Sign) Date

Robert Knight 10/2/15
Chair, College Review Committee Date

Kim Dooley 10/2/15
Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Students enrolled in the Agricultural Systems Management degree program must receive a “C” or better in the following Common Body of Knowledge classes:

- MATH 141
- MATH 142
- AGSM 301
- ACCT 209
- ECON 202
- CHEM 101/111
- PHYS 201

Students planning to complete an AGSM minor are also required to take MATH 141 and MATH 142 (or equivalent courses) and complete those with a “C” or better before enrolling in AGSM 301. Very few students enroll in AGSM 301 unless they are in the AGSM major, minor, or plan to complete either. Because of the course demands in AGSM 301, students need to have a strong foundation in MATH 141 and MATH 142.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑️ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biological and Agricultural Engineering
3. Course prefix, number and complete title of course: AGSM 315: Food Process Engineering Technology

Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

4. Change requested
   a. Prerequisite(s): From: FSTC 201; PHYS 201; junior or senior classification or approval of instructor
   To: PHYS 201; U3 or U4 classification or approval of instructor
   b. Withdrawal (reason):  
   c. Cross-list with: FSTC 315
   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑️ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑️ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vp.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).
8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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b. Change to:

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Approval recommended by:

Stephen W. Searcy
Department Head or Program Chair (Type Name & Sign) Date 9/15

Robert Knight
Chair, College Review Committee Date 10/15

Kim Dooley
Dean of College Date 10/15

Submitted to Coordinating Board by:

Chair, GC or UCC Date 10/20/15

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Per Dr. Elena Castell, one of the AGSM/FSTC 315 instructors, FSTC 201 is not required for students to enroll in AGSM 315. This course is not required in the AGSM curriculum and because of this unnecessary prerequisite, each student enrolling (every semester) requires a manual prerequisite override by the departmental academic advisor. The course background students need to have in order to be successful in this course comes from either PHYS 201 or PHYS 218. This course is offered and taught, as a cross listed course with FSTC, by faculty members in the Biological and Agricultural Engineering Department. If you have any questions or concerns, you may contact me at ecastell@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:  [✓] Undergraduate  [ ] Graduate  [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  Department of Biological and Agricultural Engineering
3. Course prefix, number and complete title of course:  AGSM 360 Occupational Safety Management

4. Change requested
   a. Prerequisite(s):  From:  To:  Junior or Senior Classification
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  [ ] Yes  [ ] No

6. If grade type is changing for existing course, indicate the new grade type:  [ ] Grade  [ ] S/U  [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://cpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)
   AGSM  360  OCCUPATIONAL SAFETY MGMT

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   3.00  0.00  0.00  3.00  1403010006  0433  0 0 3 6 3 2 3

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)
   AGSM  360  OCCUPATIONAL SAFETY MGMT

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acud. Year  FICE Code  Level
   2.00  2.00  0.00  3.00  1403010006  0433  17 18 0 0 3 6 3 2 3

   Approval recommended by:
   Stephen W. Soarcy
   Department Head or Program Chair (Type Name & Sign) Date
   Robert Knight
   Chair, College Review Committee Date
   Kim Dooley
   Dean of College Date

   Submitted to Coordinating Board by:
   Chair, GC or UCC Date

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@ttu.edu.
Curricular Services – 08/14
AGSM 360
Occupational Safety Management
Spring 2017

Instructor:  Dr. W. Brock Faulkner
Name:  Dr. W. Brock Faulkner
Office:  303A Scoates Hall
Phone:  845-3931
E-Mail:  faulkner@tamu.edu
Office hours:  By appointment

Lecture:  MWF 10:20 a.m. - 11:10 a.m.
AEPM 203 (P&M Building)

Lab:  TBD

Required Texts:


Course Description:  Safety considerations in the work environment, including safety mandates, safety mission, personal and business liability, fire, chemical, dust, machine noise, personal protective devices; design and implementation of safety programs

Prerequisites:  U3 or U4 classification

Other Requirements:  In-class exercises will be conducted using “TopHat Monocle”. Students will need to go to https://tophat.com and register for an account. If you do not have a mobile device that is supported by TopHat, please contact your instructor immediately. Instructions for TopHat are attached.

Course Objectives:  1. Introduce students to common industrial hazards and means to mitigate these hazards and develop a culture of safety within an organization.
2. Familiarize students with elements of an occupational safety program.
3. Familiarize students with pertinent regulations and resources available to address safety in the workplace.

Learning Outcomes:  1. Students will demonstrate an ability to find and use relevant OSHA Standards in the CFR through their homework assignments.
2. Students will deliver a safety-oriented training to their peers.
3. Students will conduct a mock accident investigation and perform a hazard analysis as part of their laboratory exercises.
Attendance Policy: Attendance is NOT optional. Role will be taken daily. Any student with an unexcused absence will be ineligible for credit given for in-class assignments on the days of their absence. If you have a non-medical absence, please inform me before the class period prior to the date you will be absent. Leaving a message on my voice mail prior to class is adequate. Students are responsible for obtaining class notes, handouts and other materials when they are absent. Excused absences will be handled according to Student Rule 7.

In order to qualify for NASP certifications based on course material, students must attend a minimum of 30 hours of in-person instruction.

Homework: Homework will be assigned throughout the course. Homework will be due ON OR BEFORE THE DUE DATE as assigned. Late homework will not be accepted except as provided by Student Rule 7 (http://student-rules.tamu.edu/rule07).

Homework will be assigned through http://ecampus.tamu.edu and can be found under Assessments.

Assistance with the eCampus system is available through Instructional Technology Services (http://its.tamu.edu)

Tech. Presentation: Students will be expected to work in teams to present a technical presentation related to occupational safety. The subject of the presentation will be assigned by the instructor. Teams will expected to present up-to-date training to the class related to the assigned occupational hazard(s), relevant standards and regulations, hazard mitigation, and safety administration, as they would do in an industrial environment.

Grading:

Course grades will be based on the following structure:

- In-class Participation: 10%
- Homework: 15%
- Technical Presentation: 15%
- Exam 1: 15%
- Exam 2: 15%
- Exam 3: 15%
- Exam 4: 15%

Letter grades will be assigned after course averages have been calculated. The regular University grading scale will be used. (see Student Rule 10 - http://student-rules.tamu.edu/rule10)

Certifications:

Dr. Faulkner is a National Association of Safety Professionals (NASP) Certified Safety Manager Trainer. Students who attend class in person and pass the course will be eligible for a “30 hour Course for General Industry” diploma from NASP.
**PLAN OF STUDY**

This is a general outline of the topics/timetable planned for the course which is subject to change. Class announcements by the instructor will supersede the following plan of study.

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture / Lab</th>
<th>Topic</th>
<th>Book Chpt.</th>
<th>29 CFR Section</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Introduction to Occupational Safety Management</td>
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<tr>
<td></td>
<td>Lab 1</td>
<td>No laboratories the first week of class</td>
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<td>2</td>
<td>3</td>
<td>Accident Losses, Liabilities, and Safety... (Part II)</td>
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<td>4</td>
<td>Workers' Compensation</td>
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<tr>
<td></td>
<td>Lab 2</td>
<td>Transportation Risks</td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>OSHAAct</td>
<td>4</td>
<td>29 CFR 1910</td>
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<td>6</td>
<td>Engineers and Safety</td>
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<tr>
<td></td>
<td>Lab 3</td>
<td>Acceleration, Falls, Falling Objects, etc.</td>
<td>16</td>
<td>Subparts D, F, and I</td>
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<td>4</td>
<td>7</td>
<td>Management and Its Responsibilities</td>
<td>7, 8</td>
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<td>8</td>
<td>Exam 1</td>
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<td></td>
<td>Lab 4</td>
<td>Work-Related Musculoskeletal Disorders</td>
<td>18</td>
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<td>5</td>
<td>9</td>
<td>Personnel</td>
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<td></td>
<td>10</td>
<td>Promoting Safe Practices</td>
<td>10</td>
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<td></td>
<td>Lab 5</td>
<td>Heat and Temperature</td>
<td>19</td>
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<td>6</td>
<td>11</td>
<td>Appraising Plant Safety</td>
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<tr>
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<td>12</td>
<td>Hazards and Their Control</td>
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<td>Lab 6</td>
<td>Electrical Hazards</td>
<td>21</td>
<td>Subpart S; 1910.147</td>
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<tr>
<td>7</td>
<td>13</td>
<td>Hazard/Safety Analysis</td>
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<tr>
<td></td>
<td>14</td>
<td>Planning for Emergencies</td>
<td>13</td>
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<td></td>
<td>Lab 7</td>
<td>Safety Audits</td>
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<tr>
<td>8</td>
<td>15</td>
<td>Accident Investigation (Part I)</td>
<td>14</td>
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<td></td>
<td>16</td>
<td>Exam 2</td>
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<td></td>
<td>Lab 8</td>
<td>Accident Investigation (Part II)</td>
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<tr>
<td>9</td>
<td>17</td>
<td>Mechanical Injuries</td>
<td>17</td>
<td>Subpart O 1910.178; Subpart P</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Forklifts and Power Tools</td>
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<td></td>
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<tr>
<td></td>
<td>Lab 9</td>
<td>FMEA and Fault Tree Analysis</td>
<td>15</td>
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<tr>
<td>10</td>
<td>19</td>
<td>Pressure Hazards</td>
<td>20</td>
<td>1910.101</td>
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<tr>
<td></td>
<td>20</td>
<td>Chemical Safety</td>
<td>24</td>
<td>Subparts H and Z</td>
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<td>Lab 10</td>
<td>Hazards of Toxic Materials</td>
<td>24</td>
<td>Subparts H and Z</td>
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<td>11</td>
<td>21</td>
<td>HAZWOPER</td>
<td>21</td>
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<td>22</td>
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<td>Lab 11</td>
<td>Personal Protective Equipment</td>
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<td>Subpart I; 1910.95</td>
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<td>12</td>
<td>23</td>
<td>Confined Space Entry</td>
<td>26</td>
<td>1910.146</td>
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<td>24</td>
<td>Bloodborne Pathogens</td>
<td>26</td>
<td>1910.1030</td>
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<td>Lab 12</td>
<td>Fire and Suppression</td>
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<td>Subparts E and L</td>
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<td>13</td>
<td>25</td>
<td>Vibration and Noise</td>
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<td>1910.95</td>
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<td></td>
<td>26</td>
<td>Computer Safety</td>
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<td>Lab 13</td>
<td>Explosions and Explosives</td>
<td>23</td>
<td>1910.109</td>
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<td>14</td>
<td>27</td>
<td>Record Keeping</td>
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<td>1904</td>
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<td></td>
<td>28</td>
<td>Designing and Administering Safety Programs</td>
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<tr>
<td></td>
<td>Lab 14</td>
<td>Tour of Fire Training School</td>
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<tr>
<td>15</td>
<td>29</td>
<td>Exam 4</td>
<td></td>
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</tr>
</tbody>
</table>
University Regulations and Recommended Class Policy:

You are reminded of the following university regulations:

- It is the responsibility of the student to be sure that course prerequisites are met. (TAMU Reg 3)
- Class attendance is an individual student responsibility. (TAMU Reg 15)
- Classroom behavior will be maintained to ensure the rights of all students to learn. (TAMU Reg. 40)

Americans with Disabilities Act (ADA) Policy Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity Statements

AGGIE HONOR CODE

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information please visit: http://aggiehonor.tamu.edu.

It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty. (TAMU Reg 39)

Plagiarism

The handouts used in this course are copyrighted. By “handout”, I mean all materials generated for this class, which include but are not limited to syllabi, in-class materials, materials posted on elearning.tamu.edu and handouts. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission.

As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you directly copy the work of another person and turn it in as your own, even if you have the permission of that person. Plagiarism is one of the worst forms of academic dishonesty, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g.,
2. Request submitted by (Department or Program Name): Department of Visualization
3. Course prefix, number and complete title of course: ARTS 303 Graphic Design I
4. Change requested
   a. Prerequisite(s): From: ARTS 103, VIST 105, ENDS 105 or approval of instructor and undergraduate program coordinator
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   Introduction to the principles of graphic design; composition and their application for printed and digital media. Prerequisites: ARTS 103, VIST 105, ENDS 105 or approval of instructor and undergraduate program coordinator.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Introduction to the principles of graphic design; composition and their application for printed and digital media. Prerequisites: ARTS 104, VIST 105, ENDS 105 or approval of instructor and undergraduate program coordinator.

10. As currently in course inventory:
    Prefix | Course # | Title (excluding punctuation)
    ARTS 303 | Graphic Design I
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level
    2.00 | 4.00 | 3.00 | 5004090003 | 2938 | 0 0 3 6 3 2 | 3
    b. Change to:
    Prefix | Course # | Title (excluding punctuation)
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Aczd. Year | FICE Code | Level
    Approval recommended by:
    Tim McLaughlin
    Department Head or Program Chair (Type Name & Sign) Date
    Chair, College Review Committee Date
    Department Head or Program Chair (Type Name & Sign) (If cross-listed course) Date
    Dean of College Date
    Submitted to Coordinating Board by:
    Associate Director, Curricular Services Date
    Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-3301 or sandrawilliams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DMA)
2. Request submitted by (Department or Program Name): Department of International Studies (ASIA)
3. Course prefix, number and complete title of course: ASIA 350 Asia During World War II
4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: HIST 350
      [Please list any cross-listed courses that would be affected by the proposed change.]
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, Indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CUM)
7. If this course will be stacked, please indicate the course number of the stacked course.
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vt.tamu.edu/resources/export-control/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   Asia During World War II: the origins and development of Japanese imperialism; Japan's expansion into East and Southeast Asia; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war; remembrance of the war.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    World War II in Asia and the Pacific: origins and development of Japanese imperialism; Japan's expansion into East and Southeast Asia and the Pacific; wartime societies; collaboration and resistance; effects of the war in the United States on Japanese-Americans; outcomes of the war; remembrance of the war.

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA</td>
<td>350</td>
<td>ASIA DURING WORLD WAR II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Text: 3.00</td>
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</tbody>
</table>

b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA</td>
<td>350</td>
<td>WWII Asia &amp; Pac WWII in Asia &amp; Pacific</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Text: 3.00</td>
</tr>
</tbody>
</table>

Approval recommended by: David J. Vaught, History, 9/30/15

Department Head or Program Chair: [Signature & Date] 10/19/15

Chair, College Review Committee: [Signature & Date]

Dean of College: [Signature & Date]

Submitted to Coordinating Board by: Chair, GC or UCC

Effective Date: [Date]

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History
       Robert Shandler, Head, Department of International Studies

Re: RATIONALE for Change in Course Title/Description for ASIA/HIST 350

Date: September 30, 2015

We propose changing the current course title for HIST/ASIA 350 from “Asia during World War II” to “World War II in Asia and the Pacific.” Likewise we propose changing the current description from “The origins and development of Japanese Imperialism; Japan’s expansion into East and Southeast Asia; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war; remembrance of the war,” to “the origins and development of Japanese imperialism; Japan’s expansion into East and Southeast Asia and the Pacific; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-americans; the outcomes of the war.” The proposed title and description changes reflect shifts in scholarship which explicitly address the role of the Pacific and Pacific islanders in World War II.
Departmental Request for a Change in Course

Undergraduate ∙ Graduate ∙ Professional

Submit original form and attachments

Form Instructions

1. Course request type:
   - ☑ Undergraduate
   - ☐ Graduate
   - ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):
   Department of Biochemistry and Biophysics

3. Course prefix, number and complete title of course:
   BICH 107 - Horizons in Biological Chemistry

4. Change requested:
   - Prerequisite(s): From:
     Freshman or sophomore classification or approval of instructor
   - To:
     BICH or GENE major or approval of instructor
   - Cross-list with: GENE 101

5. Is this an existing core curriculum course?
   - ☑ Yes
   - ☐ No

6. If grade type is changing for existing course, indicate the new grade type:
   - ☑ Grade
   - ☐ S/U
   - ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   - ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education [link]

8. Complete current course title and current catalog course description:
   Horizons in Biological Chemistry - An introduction to biochemistry and its relationship to the biological, biophysical and chemical sciences.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Perspectives in Biochemistry and Genetics - Introduction to Biochemistry and Genetics and their relationship to the biological, biophysical and chemical sciences.

10. Approval recommended by:
    David Peterson
    Date: 9/24/15

11. Department Head or Program Chair (Type Name & Sign)
    Date: 9/24/15

12. Chair, College Review Committee
    Date: 10/19/15

13. Dean of College
    Date: 10/19/15

14. Chair, GC or UCC
    Date: 10/19/15

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Course title and number: BICH/GENE 101 Perspectives in Biochemistry and Genetics
Term: Fall 20XX
Meeting time and location: Monday, 4:10-5:00 Biochemistry Building Room 107

Course Description and Prerequisites
Introduction to Biochemistry and Genetics and their relationship to the biological, biophysical and chemical sciences. Prerequisite: BICH or GENE major

Learning Outcomes
Upon completion of this course, students will be expected to:
1. Demonstrate a basic understanding of concepts that will be studied in more detail in advanced courses in Biochemistry and Genetics.
2. Explain to others how Biochemistry and Genetics are important to society.
3. Demonstrate a basic understanding of academic research, and appreciate the value of the opportunity to perform undergraduate research in a basic science laboratory.
4. Demonstrate effective use of library and other campus resources available to students.

Instructor Information
Name: David Peterson
Telephone number: 979-845-0953
Email address: dopeterson@tamu.edu
Office hours: Wednesday, 3:00-4:00 or by appointment
Office location: Biochemistry Building NMR Wing, Room N213A

Textbook and/or Resource Material
For the most part, there is no textbook for this course. You will be directed to various resource materials that are available through the Texas A&M University library.
You will need access to The Double Helix: A Personal Account of the Discovery of the Structure of DNA by James D. Watson. Two copies are on reserve at the Medical Science Library. Inexpensive used copies are available at amazon.com or other on-line booksellers.

Attendance
Attendance is very important in this class, and a sign-in sheet will be circulated at every class meeting. Each unexcused absence will lower your final grade by 2 points (one percent). No exceptions will be made. It is your responsibility to make sure you sign in. Excused absences are defined in TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07).
Grading Policies

Grades will be determined based on the following assignments. Details, including due dates and specific instructions for submission, will be available at the course website (ecampus.tamu.edu).

Quizzes/assignments based on readings (8) 80 pts (10 pts each)
Attend Genetics and Biochemistry Enrichment Experience (GaBEE) * 20 pts
Write a Mission Statement (due Sep xx) 10 pts
Write an Inherited Disease Summary (due Oct xx) 30 pts
Group Project
(20 for draft/practice (due Oct xx) + 40 for final presentation (due Nov xx)) 60 pts
Total 200 pts

All work must be submitted on time unless you have an excused reason as defined in TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07). Late work will not be accepted or graded without an approved excuse for late submission. Make-up quizzes will be offered to students who miss a quiz due to an excused absence.

* You must attend at least 4 of the 5 GaBEE meetings (5:30 PM on Sep xx, Sep xx, Oct xx, Oct xx, and Nov xx). An alternative assignment will be available for students who have a documented class conflict. (NOTE: An excused absence is not the same as attendance. For example, attending only 3 GaBEE meetings with one excused and one unexcused absence will not be viewed as completing the GaBEE assignment. If you have two or more excused absences, you should request to complete the alternative GaBEE assignment.)

Course grades will be assigned based on the number of points earned during the semester:
A = 180 pts or more; B = 160-179 pts; C = 140-159 pts; D = 120-139 pts; F = 119 pts or less

Class Schedule

1 Aug xx Introduction; University Services
2 Sep xx Discussion 1: The Double Helix (chapters 1-16) (Quiz/Assignment 1)
3 xx Discussion 2: The Double Helix (chapters 17-29 and epilogue) (Quiz/Assignment 2)
4 xx Discussion 3: Genetically Modified Organisms (Quiz/Assignment 3)
5 xx Discussion 4: Gene Therapy and Personalized Medicine (Quiz/Assignment 4)
6 Oct xx Discussion 5: Cancer (Quiz/Assignment 5)
7 xx Discussion 6: The Biochemistry of Aging (Quiz/Assignment 6)
8 xx Discussion 7: Dementia/Alzheimer's Disease (Quiz/Assignment 7)
9 xx Faculty Guest Lecture - Dr. Ryland Young (Bacteriophage)
10 Nov xx Group Presentation Practice (Groups 1-4)
11 xx Group Presentation Practice (Groups 5-8)
12 xx Discussion 8: The Microbiome (Quiz/Assignment 8)
13 xx Group presentations (Groups 1-4)
14 xx Group presentations (Groups 5-8)

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: http://aggiehonor.tamu.edu
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biochemistry and Biophysics
3. Course prefix, number and complete title of course: BICH 414 - Biochemical Techniques I
   Attach a brief supporting statement for changes made to items 4a thru 4i, and 10 below.
4. Change requested
   a. Prerequisite(s): From: or registration therein
       To: BICH 440, CHEM 316 and CHEM 318
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
   Prefix    Course #    Title (excluding punctuation)
   Lect.    Lab     Other    SCH      CIP and Fund Code    Admin. Unit    FICE Code 0 0 3 6 3 2 Level
   b. Change to:
   Prefix    Course #    Title (excluding punctuation)
   Lect.    Lab     Other    SCH      CIP and Fund Code    Admin. Unit    FICE Code 0 0 3 6 3 2 Level

Approval recommended by:
David Peterson

Date 9/22/15
Department Head or Program Chair (Type Name & Sign)

Chair, College Review Committee
Date 10/11/15
Dean of College
Date 10/2/2015

Submitted to Coordinating Board by:

Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Changes in Prerequisites: BICH 414
Proposed for 2016-2017 Catalog

1. Removal of CHEM 316 and CHEM 318 as prerequisites (or co-registration) for BICH 414

CHEM 316 and CHEM 318 are no longer required in the BICH B.S. and GENE B.S. degree plans, and they are not necessary for enrollment in BICH 414.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:  
   - Undergraduate
   - Graduate
   - First Professional (DVM, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 101- Introduction to Biomedical Engineering

   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

   - Freshman or sophomore classification.
   - Admitted to major degree sequence.

   Cross-listed courses require the signature of both department heads.
   - Prerequisite(s): From:
   - To:
   - Withdrawal (reason):
   - Cross-list with:

   Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   - Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

   Is this an existing core curriculum course?
   - Yes
   - No

   If grade type is changing for existing course, indicate the new grade type:
   - Grade
   - S/U
   - P/F (CLM, D)

   If this course will be stacked, please indicate the course number of the stacked course:

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. As currently in course inventory:

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   Approval recommended by:

   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College Review Committee Date

   Dean of College Date

   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.

   Curricular Services – 08/14
MEMORANDUM

TO: Office of the Registrar
THROUGH: Dr. Prasad Enjeti
Associate Dean, College of Engineering
FROM: Dr. Anthony Guiseppi-Eli
Department Head, Biomedical Engineering

RE: BMEN Course Change Requests for 2016-2017 Catalog

We are requesting that BMEN 453 and BMEN 454 be changed from two hours of lecture (2-0) to two hours of lab (0-2). These courses are senior design capstones that require students to work in small groups to design and prototype a device in partnership with an industry collaborator. Instituting lab hour requirements for this will allow students ample time to meet in their groups without course conflicts. Syllabi for these classes are attached.

We are also requesting that the description for BMEN 431 and BMEN 631 be updated. The course is being expanded to include the scope from molecular phenomena to all scales of biology and bioengineering, which will be beneficial for broader range of students.

In addition, prerequisite change requests are attached for the following courses:
- **BMEN 101**: Due to capacity issues, students must be enrolled in the BMEN major in order to take this class.
- **BMEN 207**: PHYS 208 and CHEM 101/111 content is not incorporated into this course and is therefore not needed as a prerequisite. All students are still required to complete the course for the major.
- **BMEN 211**: PHYS 208 is required for this class. Now that BMEN 207 no longer requires PHYS 208, this addition was needed.
- **BMEN 253**: This course includes a design project requiring content learned from BMEN 207. Content from VTPP 434 is not used in this course, but all students are still required to complete the course for the major.
- **BMEN 305**: Content from VTPP 434/435 is not used in this class, but all students are still required to complete the courses for the major. Content taught in BMEN 321 is used in BMEN 305; most students register for these concurrently.
- **BMEN 321**: Content from VTPP 435 is not used in this class, but all students are still required to complete the course for the major.
- **BMEN 322**: MATH 308 is required for BMEN 321, also listed as a prerequisite, making the inclusion of 308 redundant. Content from VTPP 434/435 is not used in this class, but all students are still required to complete the courses for the major.
- **BMEN 341**: Former course prerequisites were not necessary for the course, but all students are still required to complete the courses for the major.
• **BMEN 343**: Content from VTPP 435 is not used in this class; CHEM 227 content is necessary for this course, but all students are still required to complete the courses for the major.

• **BMEN 344**: Previously listed as recommended, these courses are now required and are already built into the degree sequence.

• **BMEN 401**: MATH 308 is required for BMEN 321, also listed as a prerequisite, making the inclusion of 308 redundant. Content from VTPP 434/435 is not used in this class, but all students are still required to complete the courses for the major.

• **BMEN 404**: BMEN 430 is no longer offered. BMEN 253 covers the content necessary for this course.

• **BMEN 406**: BMEN 430 is no longer offered. BMEN 253 covers the content necessary for this course.

• **BMEN 420**: BMEN 211 covers the content necessary for this course and requires the former pre-requisite of MATH 308, making its inclusion redundant.

• **BMEN 431**: BMEN 240 is no longer offered and has been replaced with BMEN 361. MATH 308 and PHYS 208 will already be completed by the time this course is reached in the degree sequence, making listing them redundant.

• **BMEN 432**: BMEN 240 is no longer offered and has been replaced with BMEN 361. The degree plan no longer requires MATH 304, the removal of which was approved for the 201431 catalog.

• **BMEN 450**: Former course prerequisites were not necessary, but are still required for all students in the major prior to graduation.

• **BMEN 451**: BMEN 282 is no longer offered. BMEN 341 covers the content necessary for this course.

• **BMEN 452**: Content from VTPP 434/435 is not used in this class, but all students are still required to complete the courses for the major.

• **BMEN 453**: This course is third in a sequence of four design courses and must be taken in order. BMEN 322 is no longer required of all students.

• **BMEN 454**: This course is last in a sequence of four design courses and must be taken in order. All other prerequisites are incorporated into the remaining requirement of BMEN 453.

• **BMEN 457**: Solid biomechanics content is required for this course.

• **BMEN 461**: BMEN 240 is no longer offered and has been replaced with BMEN 361.

• **BMEN 463**: BMEN 240 is no longer offered and has been replaced with BMEN 361.

• **BMEN 465**: This class is last in a sequence of mechanics-based classes and must be taken in order.

• **BMEN 480**: “Upper level” no longer exists in BMEN. BMEN 343 covers the content necessary for this course.

• **BMEN 482**: BMEN 342 is no longer offered. BMEN 343 covers the content necessary for this course.

Thank you for your consideration.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions:
1. Course request type:  
   - Undergraduate   - Graduate   - First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 207 - Computing for Biomedical Engineering

   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

   Change requested:
   a. Prerequisite(s): From: CHEM 101/111, MATH 152, ENGR 112.
      To: MATH 152, ENGR 112.
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes □ No

6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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b. Change to:

| Prefix | Course # | Title (excluding punctuation) |

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Approval recommended by:

[Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) (If cross-listed course) Date

Submitted to Coordinating Board by:

[Signature]

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 211- Biomedical Applications of Circuits, Signals and Systems

4. Change requested
   a. Prerequisite(s): From: 
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CIPMD)
7. If this course will be stacked, please indicate the course number of the stacked course: 
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://var.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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Approval recommended by: 

Department Head or Program Chair (Type Name & Sign) Date 
Chair, College Review Committee Date 
Department Head or Program Chair (Type Name & Sign) Date 
(If cross-listed course)
Dean of College Date 
Submitted to Coordinating Board by: 
Chair, GC or UCC Date 
Associate Director, Curricular Services 
Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandrawilliams@tamu.edu. Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 253- Medical Device Design I

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: Admitted to major degree sequence in biomedical engineering, VTPP 434; or approval of instructor. To: BMEN 207.
   b. Withdrawal (reason): 
   c. Cross-list with: 

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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Approval recommended by:

[Signature and Date]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

[Signature and Date]

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Form Instructions:
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional  (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 305- Bioinstrumentation
4. Change requested
   - a. Prerequisite(s): From: ____________________________ To: ____________________________
   - b. Withdrawal (reason): ____________________________
   - c. Cross-list with: ____________________________
   - d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   - e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☑ Yes  ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade  ☑ S/U  ☐ P/F (E, I, M, D)
7. If this course will be stacked, please indicate the course number of the stacked course: _______________
8. I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://ypr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description: ____________________________
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Approval recommended by: ____________________________
Department Head or Program Chair (Type Name & Sign)  Date
Chair, College Review Committee  Date
Dean of College  Date

Submitted to Coordinating Board by: ____________________________
Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PhamD, DMA)

2. Request submitted by (Department or Program Name): Department of Biomedical Engineering

3. Course prefix, number and complete title of course: BMEN 321- Biomedical Electronics

4. Change requested
   a. Prerequisite(s): From: BMEN 211; VTTP 435; junior or senior classification; or approval of instructor. To: BMEN 211; junior or senior classification.
   b. Withdrawal (reason): 
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11 a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11 a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☐ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://yr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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<tr>
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<tr>
<td>BMEN</td>
<td>321</td>
<td>BIOMEDICAL ELECTRONICS</td>
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b. Change to:

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</table>

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions:
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PhamD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 322- Biosignal Analysis

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<th>To: BMEN 321.</th>
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<td>Cross-listed courses require the signature of both department heads.</td>
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<tr>
<td>b. Withdrawal (reason):</td>
<td>Change in title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.</td>
<td></td>
</tr>
<tr>
<td>c. Cross-list with:</td>
<td>Change in course number, contact hours (lab &amp; lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.</td>
<td></td>
</tr>
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<td>d. Change in course title and description: Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.</td>
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<td></td>
<td></td>
</tr>
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</table>

5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLM)
7. If this course will be stacked, please indicate the course number of the stacked course:
[ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
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Approval recommended by: [Signature] Kristen Maitland 9/28/15
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by: [Signature] Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14

RECEIVED OCT 15 2015

CURRICULUM SERVICES

RECEIVED OCT 2 2015

CURRICULUM SERVICES
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 341- Biofluid Mechanics
4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
5. Is this an existing core curriculum course? □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
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Approval recommended by: [Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 343- Introduction to Biomaterials

4. Change requested
   a. Prerequisite(s): From: ____________________________
   b. Withdrawal (reason): ____________________________
   c. Cross-list with:

5. Cross-listed courses require the signature of both department heads.

6. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

7. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

8. Is this an existing core curriculum course?
   □ Yes ☑ No

9. If grade type is changing for existing course, indicate the new grade type:
   □ Grade ☑ S/U ☑ P/F (CLMD)

10. If this course will be stacked, please indicate the course number of the stacked course:
   □ Yes ☑ No

11. Complete current course title and current catalog course description:

12. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

<table>
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a. As currently in course inventory:

b. Change to:

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<tr>
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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form Instructions
1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 344- Biological Responses to Medical Devices
4. Change requested
   a. Prerequisite(s): From: BMEN 343; VTPP 435 or concurrent enrollment.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  
   - Yes  
   - No
6. If grade type is changing for existing course, indicate the new grade type:  
   - Grade change
   - S/U change
   - P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current course description:
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</thead>
</table>

   Approval recommended by:

   Kristen Maitland 10/13/15

   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date

   Dean of College  Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services  Date

   Questions regarding this form should be directed to Sandra Williams at 845-6231. Curricular Services - 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 401-Principles and Analysis of Biological Control Systems

Attach a brief supporting statement for changes made to items 4a thru 14, and 10 below.

4. Change requested
   a. Prerequisite(s): From: BMEN 321; MATH 308; VTPP 434 and To: BMEN 321.
   b. Withdrawal (reason):
   c. Cross-list with:

Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Form Instructions
1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 404- FDA Good Laboratory and Clinical Practices

4. Change requested
   a. Prerequisite(s): From: Admitted to major degree sequence and BMEN 430; junior or senior classification. To:
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title. 
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? [ ] Yes [✓] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLSD)
7. If this course will be stacked, please indicate the course number of the stacked course: [ ]
   [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls-export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

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Approval recommended by:

[Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

[Signature]

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate  ❋ Graduate  ❋ Fisc: Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 406 - Medical Device Path to Market
4. Change requested
   a. Prerequisite(s): From: Admission into degree sequence of the major and junior or senior classification or approval of instructor. To: BMEN 253; junior or senior classification, or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:
   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☑ Yes  ❋ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade  ❋ S/U  ❋ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 606
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/controls-export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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b. Change to:

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</thead>
</table>

Approval recommended by: [Signature]
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date
Dean of College Date
Chair, GC or UGC Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions
1. Course request type: ☑️ Undergraduate  ☐ Graduate  ☐ First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 420- Medical Imaging

4. Change requested
a. Prerequisite(s): From: MATH 308, junior or senior classification; or approval of instructor. To: BMEN 211; junior or senior classification.

b. Withdrawal (reason):

c. Cross-list with: Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes  ☑️ No

6. If grade type is changing for existing course, indicate the new grade type: ☑️ Grade  ☐ S/U  ☐ P/F (CLIP)

7. If this course will be stacked, please indicate the course number of the stacked course:

☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:

Kristen Mailand 9/28/13

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 431- Thermodynamics of Biomolecular Systems

4. Change requested
   a. Prerequisite(s): From: BMEN 240, PHYS 208 and MATH 308. To: BMEN 361.
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade S/U ☐ F/P/C ☐ E/L
7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 631
8. I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete course title and current catalog course description:
   THERMODYNAMICS OF BIOMOLECULAR SYSTEMS - Introduces equilibrium and non-equilibrium statistical mechanics and applies them to understand various biomolecular systems; including ensemble theory, reaction kinetics, nonlinear dynamics, and stochastic processes; with applied examples such as protein-ligand binding kinetics, conformational dynamic properties of proteins and nucleic acids, population dynamics, and noise in biological signals.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   THERMODYNAMICS OF BIOMOLECULAR SYSTEMS - Biothermodynamics; quantitative framework for describing materials behavior and processes as they relate to the properties and interactions of microscopic constituents; application to biotechnology and biomedicine problems.

11. a. As currently in course inventory:

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Approval recommended by:

Kristen Maitland 10/15/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 08/14
**Texas A&M University**
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
*Submit original form and attachments.*

1. Course request type:  
   - [x] Undergraduate  
   - [] Graduate  
   - [] First Professional (DDS, MD, JD, PharmD, DVM)  

2. Request submitted by (Department or Program Name): Department of Biomedical Engineering

3. Course prefix, number and complete title of course: BMEN 432 - Molecular and Cellular Biomechanics

4. Change requested
   a. Prerequisite(s): From: BMEN 240, MATH 304; junior or senior classification.  
   To: BMEN 361  
   b. Withdrawal (reason):  
   c. Cross-list with:  
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.  
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  
   - [x] Yes  
   - [] No

6. If grade type is changing for existing course, indicate the new grade type:  
   - [] Grade  
   - [] S/U  
   - [] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 432

8. I verify that I have reviewed the FAQ for Export Control Basises for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basises-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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Approval recommended by:  

Kristen Mairland  
9/28/15

Chair, College Review Committee

Dean of College

Chair, GC or JUSE

Questions regarding this form should be directed to Sandra Williams at 845-3801 or sandra.williams@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, Ph.D., DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 450 - Case Studies
4. Change requested
   a. Prerequisite(s): From: BMEN 361, BMEN 305 and BMEN 344; junior or senior classification; or approval of instructor. To: Admitted to major degree sequence; junior or senior classification.
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete items 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete items 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 450
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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b. Change to:

| Prefix | Course # | Title (excluding punctuation) |

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Approval recommended by: [Signature]
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dear of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 08/14

OCT 2 3 2015
RECEIVED
CURRICULAR SERVICES
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✕ Graduate ✕ Professional
Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 451 - Cell Mechanobiology

4. Change requested
   a. Prerequisite(s): From: BMEN 282/CHEN 262 and admitted to major degree sequence in biomedical engineering. To: BMEN 341.
   b. Withdrawal (reason):
   c. Cross-list with: [Cross-listed courses require the signature of both department heads.]
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
   f. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLNR)
   g. If this course will be stacked, please indicate the course number of the stacked course: [ ]
   h. Change to:

5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLNR)
7. If this course will be stacked, please indicate the course number of the stacked course: [ ]
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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Approval recommended by:

Kristen Maitland    10/3/15  Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Dean of College  Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:  ✓ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 452- Mass and Energy Transfer in Biosystems

4. Change requested
   a. Prerequisite(s): From: Rain 341; MATH 308; VTP 343 and VTP 435. To: BMEN 341; MATH 308
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   □ Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  □ Yes  ☑ No
6. If grade type is changing for existing course, indicate the new grade type:  □ Grade  □ S/U  □ P/F (CLAP)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://epr.tamu.edu/resources/export-
   controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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   b. Change to:

   | Prefix | Course # | Title (excluding punctuation) |

   | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |

   Approval recommended by:

   Kristen Maild  10/13/15

   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date

   Department Head or Program Chair (Type Name & Sign)  Date

   Dean of College  Date

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions:
1. Course request type: 
   - Undergraduate
   - Graduate
   - First Professional (ODS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 453 - Analysis and Design Project I

4. Change requested
   a. Prerequisite(s): From: BMEN 321, BMEN 322; BMEN 344; BMEN 253 and BMEN 353; senior classification or approval of instructor. To:

   b. Withdrawal (reason):

   c. Cross-list with: 
   (Cross-listed courses require the signature of both department heads.)

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?

6. If grade type is changing for existing course, indicate the new grade type:
   - Grade
   - S/U
   - P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

   I verify that I have reviewed the FAQ for Export Controls for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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<tr>
<td>BMEN</td>
<td>453</td>
<td>Analysis and Design Project I</td>
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Approval recommended by:

[Signature]
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

[Signature]
Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Course title and number  BMEN 453. Analysis and Design Project I
Term  Fall 2016
Meeting times and location  TR 9:35-12:25 ETB 1034

Course Description and Prerequisites

Group or team biomedical engineering analysis and design project involving statement, alternative approaches for solution, specific system analysis and design.

Prerequisites: BMEN 321 and 353.

Learning Outcomes or Course Objectives

- To work as a team to follow a systematic process of designing a medical device or solution to medical problem
- Work with a project sponsor to identify needs, determine design requirements and constraints, and define related specifications
- Perform background research and patent search to determine patentability and freedom to operate
- Prepare a presentation for the overall project needs, requirements, and initial design plan
- Learn and apply project management principles
- Conduct effective brainstorming for concept generation
- Analyze multiple possible solutions and make decisions based on a systematic process
- Develop a plan for prototyping and testing of concepts, including a budget
- Organize, plan, conduct, and report on a Preliminary Design Review with sponsor and independent engineering reviewers

Learning Outcomes (ABET)
Outcome C (understanding of industry design process in development of a system) is met via course lectures that emphasize project management and via guest speakers from industry. Industry evaluators are asked to evaluate the students' products each semester and their comments are solicited.

Outcome D (Ability to work well on large biomedical projects requiring a team environment) is met via graded weekly reports and peer assessment.

Outcome G (Ability to communicate technical matters) is met in the BMEN 453 course via graded written technical reports (Project Statement, Prior Art Search, Concept Generation and Selection Plan, Testing and Analysis Plan, and Design Review Report) and oral presentations (Progress Reports, Design Reviews)

Instructor Information

Name  Prof. John Hanks
Telephone number  979-458-2321
Email address  john.hanks@tamu.edu
Office hours  MW 1400-1500 or by appointment
Office location  5015 ETED

Textbook and/or Resource Material

Reference Texts:
Biodesign, edited by Zenios, Makower, Yock; Cambridge Univ Press, 2010.
*Other material distributed through e-learning.
Grading will be based on:
1. *Code of Cooperation/Team Charter  5%
2. *Formal Project Statement  15%
3. *Prior Art Report  15%
4. *Concepts Generated & Design Selection Report  15%
5. *Testing & Analysis Plan  15%
6. Oral Project Presentation (15 min)  15%
7. *Formal Design Review Report (including sponsor evaluation)  20%
8. *Group assignments will be adjusted using Peer Assessment Strategy  100%

*All assignments must be turned in on time. Late work will not be accepted.  
The University requires class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07.  
Attendance and on-time arrival for all scheduled class meetings is mandatory. A 1% deduction will be made from the final grade for all unexcused absences and a -0.5% deduction will be made for each late arrival. Reasonable efforts to inform the instructor of any anticipated absence are expected.

<table>
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<tr>
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<th>Required Reading / Major Assignments</th>
<th>Course Topics, Calendar of Activities, Major Assignment Dates</th>
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<tr>
<td>1</td>
<td>Design Process Overview Intellectual Property</td>
<td>Project Descriptions (Handout) Record Keeping Handouts</td>
<td>Project Preferences Due (9/3) Lessard Ch. 2-6</td>
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<td>Patent Search Reports (9/26) Lessard Ch. 15</td>
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<td>Project Presentations</td>
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<td>13-14</td>
<td>Perform Design Reviews (schedule with instructor, sponsor, reviewers)</td>
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<td>15</td>
<td>Wrap-up and Assessment</td>
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Americans with Disabilities Act (ADA)
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity
For additional information please visit: http://aggiehonor.tamu.edu/  
"An Aggie does not lie, cheat or steal, or tolerate those who do.

Cheating or plagiarism: Cheating or plagiarism will result in failure of the course. Plagiarism consists of passing off as one's own ideas, words, writings, etc. the work which belongs to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. All resources used as sources of information must be properly cited. Ignorance of the rules will not excuse cheating or plagiarism, so be sure you understand the rules.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (ODS, M.D.) □ Ed.D, D.V.M.
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 454- Analysis and Design Project II
4. Change requested
   a. Prerequisite(s): From: BMEN 321, BMEN 322, BMEN 344 and BMEN 453; senior classification; or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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Approval recommended by:

[Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 08/14
Course title and number   BMEN 454. Analysis and Design Project II
Term                      Spring 2014
Meeting times and location TR 9:35-12:25 ETB 1034

Prerequisites: BMEN 453.

Course Description and Prerequisites

Course Objectives
- To work as a team to follow a systematic process of designing a medical device or solution to medical problem
- Construct a prototype of a sponsor-approved design
- Test the prototype to assess whether the design meets specifications
- Perform iterative design, as needed, to realize a design that meets specifications
- Organize, plan, conduct, and report on a Critical Design Review with sponsor and independent engineering reviewers

Learning Outcomes or Course Objectives

Learning Outcomes (ABET)
Outcome C (understanding of industry design process in development of a system) is met via course lectures that emphasize project management and via guest speakers from industry. Industry evaluators are asked to evaluate the students' products each semester and their comments are solicited.

Outcome D (Ability to work well on large biomedical projects requiring a team environment) is met via graded weekly reports and peer assessment.

Outcome G (Ability to communicate technical matters) is met in the BMEN 454 course via graded written technical reports (Formal Progress Report and Final Report & Design Review Report) and oral presentations (Project Status Report, Critical Design Review).

Instructor Information
Name             Prof. John Hanks
Telephone number 979-458-2321
Email address    john.hanks@tamu.edu
Office hours     MW 1330-1430 or by appointment
Office location  5015 ETB

Textbook and/or Resource Material
Reference Texts:
Biodesign, edited by Zenios, Makower, Yock; Cambridge Univ Press, 2010.
*Other material distributed through e-learning.
Grading will be based on:
1. Oral Project Presentation (20 min) 20%
2. *Weekly Progress Report and Team Time Log consistent with an effective effort level of 6 hours/week/person. 20%
3. *Design Review Report 20%
4. *Final Binder & Design Review Report (including sponsor evaluation) 40%

*Group assignments will be adjusted using Peer Assessment Strategy

All assignments must be turned in on time. **Late work will not be accepted.**

"The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)."

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### Course Topics, Calendar of Activities, Major Assignment Dates

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<th>Required Reading / Major Assignments</th>
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<td>Plan Revisions / Detail Design Phase Approval</td>
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<td>Prototyping/Analysis</td>
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<td>3 (1/28)</td>
<td>Prototyping/Analysis</td>
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<td>Prototyping/Analysis</td>
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<td>5 (2/11)</td>
<td>Prototyping/Analysis</td>
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<td>6 (2/18)</td>
<td>Prototyping/Analysis</td>
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<td>7 (2/25)</td>
<td>Perform Design Reviews</td>
<td>Weekly Progress Report Due</td>
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<tr>
<td>8 (3/4)</td>
<td>Perform Design Reviews</td>
<td>Design Review Reports Due (3/8)</td>
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<tr>
<td>9 (3/18)</td>
<td>Project Presentations</td>
<td>Weekly Progress Report Due</td>
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<td>10 (3/25)</td>
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<td>11 (4/1)</td>
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<td>Project Closeout</td>
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<td>Perform Design Reviews</td>
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### Americans with Disabilities Act (ADA)

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For additional information please visit: [http://aggiehonor.tamu.edu/](http://aggiehonor.tamu.edu/)

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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DOS, MD, JD, PharmD, DPA)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 457- Orthopedic Biomechanics
4. Change requested
   a. Prerequisite(s): From: Admitted to major degree sequence in biomedical engineering; junior or senior classification. To: BMEN 361 or equivalent course approved by instructor.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes  ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade S/U ☐ P/F (CIPM)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
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    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
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    b. Change to:
    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | Accl. Unit | FICE Code | Level |
    |        |          |       |     |                 |              |            |            |       |

Approval recommended by:
Kristen Mahtland 10/3/15
Department Head or Program Chair (Type Name & Sign)

Date
Chair, College Review Committee
Date
Dean of College
Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DPS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 461 - Cardiac Mechanics

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.
4. Change requested
   a. Prerequisite(s): From: BMEN 240, BMEN 341, and BMEN 405; approval of instructor. To: BMEN 341 and BMEN 361.
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLAS) ☑ P/F (CLAM)
7. If this course will be stacked, please indicate the course number of the stacked course: 
   b. Change to:

   a. As currently in course inventory:

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   b. Change to:

   | Prefix | Course # | Title (excluding punctuation) |

Approval recommended by: 
Kristen Matland 10/13/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DPM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 463- Soft Tissue Mechanics and Finite Element Methods

Attach a brief supporting statement for changes made to items 4a through 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: BMEN 240 or equivalent; junior or senior classification. To: BMEN 341 and BMEN 361.
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   ☐ Yes  ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CR/NC)

7. If this course will be stacked, please indicate the course number of the stacked course:

   BMEN 463

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamuj.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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   Approval recommended by:

   Kristen Maltland  10/12/15

   Chair, College Review Committee  Date
   Dean of College  Date
   Chair, GC or UCC  Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamuj.edu
Curricular Services — 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate - Graduate - Professional
Submit original form and attachments

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 465- Biomechanics Experiential Learning Lab
   Attach a brief supporting statement for changes made to Items 4a thru 4d and Item 10 below.
4. Change requested
   a. Prerequisite(s): From: To:
   b. Withdrawal (reason): Cross-list with:
   c. Change in title and description. Enter complete current course title and current course description in Item 9; enter proposed course title and proposed course description in Item 10. Complete items 11a and b for a change in title.
   d. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: Grade
   S/U ☐ P/F (CLMD) ☐
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://pr.tamu.edu/resources/export-
   controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
11. As currently in course inventory:
   Prefix Course # Title (excluding punctuation)  BMEN 465- BIOMECHANICS EXPER LAB
   Lec. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
   0.00 3.00 1.00 1405010006 0450 0 0 3 6 3 2 4
   Change to:
   Prefix Course # Title (excluding punctuation)
   Lec. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code Level
   Approval recommended by:
   Department Head or Program Chair (Type Name & Sign) Date
   Department Head or Program Chair (Type Name & Sign) Date
   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8209 or sandra.williams@tamu.edu
Curricular Services - 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:  ✔ Undergraduate  ☐ Graduate  ☐ First Professional (DOS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 480 - Biomedical Engineering of Tissues
4. Change requested:
   a. Prerequisite(s): From: Admitted to major degree sequence (upper level) in biomedical engineering. To: BMEN 343.
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  ❌ Yes  ✔ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 1850
8. Complete course title and current catalog course description (not to exceed 50 words):
9. Complete course title and current catalog course description:
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

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b. Change to:
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Approval recommended by:
Kristen Maitland 10/13/15
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date
Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services
Chair, GC or UCC Date

Questions regarding this form should be directed to Sandra Williams at 845-820, or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate • Graduate • Professional  
• Submit original form and attachments •

1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, M.D., J.D., PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biomedical Engineering
3. Course prefix, number and complete title of course: BMEN 482- Polymeric Biomaterials
4. Change requested:  
   a. Prerequisite(s): From: BMEN 342 or approval of instructor; junior or senior classification. To: BMEN 343.
   b. Withdrawal (reason):  
   c. Cross-list with:  
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade ☑ S/U ☑ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: BMEN 491L
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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Approval recommended by:  
Kristen Mathanks  
Department Head or Program Chair (Type Name & Sign)  
10/13/15  
Date

Chair, College Review Committee  
Date

Dean of College  
Date

Submitted to Coordinating Board by:  
Associate Director, Curricular Services  
Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DO, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
3. Course prefix, number and complete title of course: CHEM 289, Special Topics in...

4. Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

   Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and 11b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and 11b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (clm)

7. If this course will be stacked, please indicate the course number of the stacked course: ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   CHEM 289 Special Topics in...
   Credits 1 to 4. 1 to 4 Lecture Hours.
   Selected topics in an identified area of chemistry. May be repeated for credit. Prerequisite: Approval of instructor

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   CHEM 289 Special Topics in...
   Credits 0 to 4. 0 to 4 Lecture Hours.
   Selected topics in an identified area of chemistry. May be repeated for credit. Prerequisite: Approval of instructor

10. As currently in course inventory:
   Prefix: CHEM 289 Special Topics in...
   
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b. Change to:
   Prefix: CHEM 289 Special Topics in...
   
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   Approval Recommended by: ____________________________
   Chair, College Review Committee Date: 9-2-15
   Dean of College: ____________________________ Date: 10-1-15

   Submitted to Coordinating Board by: ____________________________
   Chair, GC or UCC Date: ____________________________

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
   Curricular Services - 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate □ Graduate □ Professional
□ Submit original form and attachments □

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (ex., DVM, JD, MD, etc.)

2. Request submitted by (Department or Program Name): Arlie McFerrin Department of Chemical Engineering

3. Course prefix and number and complete title of course: CHEN 204 Elementary Chemical Engineering

4. Change requested
   a. Prerequisite(s): From: Admission to chemical engineering major or approval of instructor
      To: CHEM 102 and CHEM 112 and ENGR 112 and MATH 152 and PHYS 218 all with grade of C or better, admission to chemical engineering major; or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes □ No

6. If this course will be stacked, please indicate the course number of the stacked course:

7. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Solution of elementary problems by application of mass balances, energy balances and equilibrium relationships. Prerequisite: Admission to chemical engineering major or approval of instructor.
   
   Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Solution of elementary problems by application of mass balances, energy balances and equilibrium relationships. Prerequisite: CHEM 102 and CHEM 112 and ENGR 112 and MATH 152 and PHYS 218 all with grade of C or better, admission to chemical engineering major; or approval of instructor.

10. As currently in course inventory:

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<th>Prefix</th>
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<th>Level</th>
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<td>0</td>
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<td>0003632</td>
<td>2</td>
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</tr>
</tbody>
</table>

Approval recommended by: [Signature]

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) (If cross-listed course)

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14

RECEIVED
OCT 15 2015
ESSAP
TO: Dr. Tim Scott, Chair  
University Curriculum Committee

THROUGH: Dr. Valerie Taylor  
Dwight Look College of Engineering

Dr. M. Nazmul Karim, Department Head  
Artie McFerrin Department of Chemical Engineering

FROM: Dr. Victor Ugaz, Associate Head  
Undergraduate Studies, Artie McFerrin Department of Chemical Engineering

DATE: October 9, 2015

SUBJECT: Changes in Curriculum – Course Prerequisites and Contact Hours

The Artie McFerrin Department of Chemical Engineering Undergraduate Curriculum Committee is requesting the following changes in the Chemical Engineering curriculum. These changes impact prerequisite requirements and contact hours associated with our sophomore-level gateway course CHEN 204 – Elementary Chemical Engineering.

**Change in Course Prerequisite**
CHEN 204. Elementary Chemical Engineering.
- Current prerequisite: Admission to Chemical Engineering major or approval of instructor.
- Proposed prerequisite: CHEM 102 and CHEM 112 and ENGR 112 and MATH 152 and PHYS 218 all with grade of C or better, admission to chemical engineering major; or approval of instructor.

Rationale for proposed change: The undergraduate catalog currently indicates in a footnote that all freshman-year courses must be passed with a grade of C or better, but does not explicitly specify when they must be completed. The proposed prerequisite change is intended to clarify the expectation that completion of the above mentioned courses is expected prior to enrollment in CHEN 204. The learning objectives in CHEN 204 presume that students have previously demonstrated knowledge and mastery of the material in these freshman-year courses.

**Change in Contact Hours**
CHEN 204. Elementary Chemical Engineering.
- Current contact hours: 3-hour lecture, 0-hour lab, 3 SCH.
- Proposed contact hours: 2-hour lecture, 3-hour lab, 3 SCH.

Rationale for proposed change: This change reflects inclusion of contact time devoted specifically to problem solving and guided practice. Our recent experience suggests that organizing the course delivery in this way contributes to student success. The addition of dedicated lab contact hours is intended to enable formal implementation of this instructional format.

200 Jack E. Brown Building  
3122 TAMU  
College Station, TX 77843-3122  
Tel. 979.845.3361  Fax. 979.845.6446  
https://www.che.tamu.edu
CHEN 204, Elementary Chemical Engineering, 3 Credits (3-2) Required course for a B.S in Chemical Engineering

Course (catalog) description: Solution of elementary problems by application of mass balances, energy balances, and equilibrium relationships

Course Prerequisites: CHEM 102,112 and ENGR 112 and MATH 152 and PHYS 218 all with a grade of C or better, admission to the major; or approval of instructor.

Skill Prerequisites:

Knowledge of fundamental concepts of engineering.
* You are expected to have the ability to perform spreadsheet calculations. Know unit systems and conversions. Have basic graphing skills. Be familiar with an accounting framework.

Knowledge of fundamental concepts of science and math.
* Have basic skills in algebra, differential calculus, integral calculus, simple first order differential equations. Be able to balance chemical reactions. Know chemical nomenclature.

Course Learning Outcomes:

By the end of the course, students should be able to do the following things:
1. Recognize chemical engineering nomenclature. Know systems of units and dimensions. Define and relate process variables. Learn basic unit operations of chemical processes and describe how each works qualitatively.
2. Use a systematic approach to solve chemical engineering problems. Identify variables, draw and label a process flow chart from a word description. Perform and use degrees of freedom analysis. Formulate mathematical expressions that represent word problems.
3. Use effectively an accounting framework to solve material and energy balance problems.
4. Develop technical communication skills required to work effectively in teams. Recognize the skills needed to function in a modern engineering environment. Develop teaming skills. Recognize engineering roles in society. Develop and practice written and oral communication skills.

Instructor: Arul Jayaraman, CHEN 222, Email: arulj@tamu.edu; 845-3306

Class: MW 11:30 AM - 12:20 PM, CHEN 106
       MW 4:30 PM - 5:45 PM, CHEN 106

Office Hours: 1) MWF 1:00 - 2:00 PM CHEN Room 222
              2) By appointment

Teaching Fellow: Ms. Nandita Kohli; nandita.kohli@gmail.com

TA/Peer Tutors: Mr. Marc Panu, Mr. Arthur Kleiderer, Mr. Samuel Adams, Mr. Kyle Fennel. Some/all of them will hold office hours at the following times: MTWR, 3.00-5.00 PM in CHEN 317 (JEB 317).


Supplementary Material: 1. Student workbook for Felder & Rousseau
Course Policies and Procedures:

Changes in schedule
The instructor reserves the right to change the order and content of lectures as necessary. Note that exam dates may be changed by the instructor, but in each case, at least 5 days notice will be given.

Examination policy
There will be two mid-term exams and a final exam. You are expected to take examinations when offered. Makeup exams will be given only for documented illnesses or University excused absences. If you are taking a make-up, you must inform me within 48 h of the exam. You will be required to provide official documentation to justify your absence. The exam schedule is given below.

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<th>Exam</th>
<th>Percentage</th>
<th>Date/Time</th>
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<tr>
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<td>T, 10/6, 7:00 - 9:00 PM; Closed book</td>
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</tr>
<tr>
<td>#2</td>
<td>(25%)</td>
<td>T, 11/3, 7:00 – 9:00 PM; Closed book</td>
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<tr>
<td>Quizzes</td>
<td>(5%)</td>
<td>Multiple</td>
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<tr>
<td>Final</td>
<td>(30%)</td>
<td>12/16, 10:30 AM – 12:30 PM (Cumulative, Open Book)</td>
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Exam re-grade requests will be entertained for 1 week after the exam is first returned in class. I reserve the right to re-grade the entire exam.

Homework & Quiz policy
All HW will be completed online using a third-party provider Sapling Learning (www.saplinglearning.com). Instructions will be emailed later. You can work with anybody on the homework but every student has to submit an individual solution online. HW due dates will be announced in class. Extensions may be provided only if prior approval has been obtained and are subject to penalty.

Quizzes will be periodically given to assess the class’ grasp of the covered material. Make-ups for these quizzes will not be given but consideration will be given if it is an excused absence.

Help sessions
We will hold 3 help sessions every week in CHEN 111 and CHEN 112 (MTW 7:00 – 9:00 pm). I will assign 4-6 problems from the textbook every week to be solved in these sessions. The purpose of the help sessions is not to solve problems for you but to help students (or groups of students) set up a solution procedure for these problems and understand the underlying concepts. These problems will not be graded but you can check your work with the TA. Attendance for these sessions is not required but strongly encouraged.

Attendance
The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07."

Excused Absences
Students may be excused from attending class on the day of a graded activity or when attendance contributes to a student's grade. Examples of legitimate excused absences are available at http://student-rules.tamu.edu/rule07. Accommodations sought for absences due to the observance of a religious holiday can be sought either prior or after the absence, but not later than two working days after the absence. Whenever possible, the student must notify me in writing (acknowledged e-mail message is acceptable) prior to the date of absence if such notification is feasible. In cases where advance notification is not feasible (e.g. accident or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class.
In the case of injury or illness of any duration, any medical confirmation note you provide must contain the date and time of the illness and medical professional's confirmation of needed absence for the class activity. Merely visiting student health will not be accepted as evidence of excused absence for this course. If needed, the student can be asked to provide additional documentation substantiating the reason for the absence that is satisfactory to the instructor, within one week of the last date of the absence.

Course Outline: (Subject to change)

1. What is Chemical Engineering?
2. Introduction to Engineering Calculations
   a- Units and Dimensions
   b- Significant Figures
   c- Graphs
   2.1 - 2.4, 2.6
   2.5
   2.7
3. Processes and Process Variables
   a- Mass and Volume
   b- Flow Rate
   c- Chemical Composition
   d- Pressure
   e- Temperature
   3.1
   3.2
   3.3
   3.4
   3.5
4. Fundamentals of Material Balances
   a- Process Classification
   b- Balances
   c- Multiple Unit Balances
   d- Recycle and Bypass
   e- Reactive Systems
   f- Combustion
   4.1
   4.2-4.3
   4.4
   4.5
   4.6 - 4.7
   4.8
5. Single Phase Systems
   a- Liquid and Solid Densities
   b- Ideal Gases
   c- Real Gases
   5.1
   5.2
   5.4
6. Multiphase Systems
   a- Single-Component Equilibrium
   b- Gibbs-Phase Rule
   c- Gas-Liquid Systems: One Condensable Component
   d- Multi-component Gas-Liquid Systems
   6.1
   6.2
   6.3
   6.4
   EXAM#1
   EXAM#2
7. Energy and Energy Balances
   a- Forms of Energy: The First Law of Thermodynamics
   b- Kinetic and Potential Energy
   c- Energy Balances on Closed Systems
   d- Energy Balances on Open Systems at Steady State
   e- Tables of thermodynamic Data
   f- Energy Balance Procedures
   7.1
   7.2
   7.3
   7.4
   7.5
   7.6
8. Balances on Non-reactive Processes
   a- State Properties and Hypothetical Process Paths
   b- Changes in Pressure at Constant Temperature
   c- Changes in Temperature
   d- Phase Change Operations
   8.1
   8.2
   8.3
   8.4
9. Balances on Reactive Processes
   a- Heats of Reaction
   b- Hess' Law
   9.1
   9.2
10. Balances on transient processes
    FINAL (Cumulative)
    11.1-11.2
Tentative grading scale
90 – 100: A
80 – 89: B
70 – 79: C
60 – 69: D
Below 60: F

Note: The minimum score needed for a certain grade may decrease but will not increase (i.e., a score of 90 is an A no matter what the class average is)

Relationship of course to program outcomes

<table>
<thead>
<tr>
<th>Course Objectives</th>
<th>ChE Program Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognize the nomenclature of Chemical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>• Know systems of units and dimensions</td>
<td></td>
</tr>
<tr>
<td>• Define and relate process variables</td>
<td></td>
</tr>
<tr>
<td>• Learn basic unit operations of chemical processes and describe how each</td>
<td></td>
</tr>
<tr>
<td>works qualitatively</td>
<td></td>
</tr>
<tr>
<td>Use a systematic approach to solve Chemical Engineering problems</td>
<td>1</td>
</tr>
<tr>
<td>• Identify variables, draw a process flow chart from a written description</td>
<td></td>
</tr>
<tr>
<td>• Perform and use degrees of freedom analysis</td>
<td></td>
</tr>
<tr>
<td>• Formulate mathematical expressions that describe written problems</td>
<td></td>
</tr>
<tr>
<td>Use effectively an accounting framework to solve material and energy balance</td>
<td>1</td>
</tr>
<tr>
<td>problems</td>
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<tr>
<td>Develop technical communication skills required to work effectively in teams</td>
<td>4, 9</td>
</tr>
<tr>
<td>• Recognize the skills needed to function in a modern engineering environment</td>
<td></td>
</tr>
<tr>
<td>• Develop teaming skills</td>
<td></td>
</tr>
<tr>
<td>• Recognize engineering roles in society</td>
<td></td>
</tr>
<tr>
<td>• Develop and practice written communication skills</td>
<td></td>
</tr>
</tbody>
</table>

Academic Integrity
Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.” Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information please visit: www.tamu.edu/aggiehonor/

Honor Council Rules and Procedures
http://www.tamu.edu/aggiehonor

Academic Integrity Task Force, 2004

American with Disabilities Act Policy Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments.

Form Instructions
1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Zachary Department of Civil Engineering
3. Course prefix, number and complete title of course: CVEN 400 Design Problems in Civil Engineering

4. Change requested
   a. Prerequisite(s): From: CVEN 303 and 345; CVEN 322 or 422; senior classification; or approval of instructor.
      To: CVEN 303, 322, 345, and 399; senior classification; or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:

      Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   [ ] Yes [✓] No

6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://spr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | CVEN   | 400      | DESIGN PROBLEMS IN CVEN      |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    |-------|-----|-------|-----|------------------|-------------|-----------|-------|
    | 2.00  | 3.00| 0.00  | 3.00| 1408010006       | 0630        | 0 0 3 6 3 2 4 |

    b. Change to:

    | Prefix | Course # | Title (excluding punctuation) |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |
    |-------|-----|-------|-----|------------------|-------------|------------|-----------|-------|

    Approval recommended by:

    Robin Auenricht

    Department Head or Program Chair (Type Name & Sign) Date

    Chair, College Review Committee Date

    Department Head or Program Chair (Type Name & Sign) Date

    Dean of College Date

    Submitted to Coordinating Board by:

    Associate Director, Curricular Services

    Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@currserve.tamu.edu.
Supporting Statement – Item 4a (Change in Prerequisites)

CVEN 422 is no longer offered and has been removed from the course prerequisites.

CVEN 399 has been added to the course prerequisites. This is a newly created course to implement a high-impact learning practice at the mid-curriculum stage. Requiring it as a prerequisite to CVEN 400 – a capstone design course – ensures proper sequencing of courses in the BS-CVEN curriculum.
Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate • Graduate • Professional  
● Submit original form and attachments ●

**Form Instructions**

1. **Course request type:**  
   - [✓] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. **Request submitted by** (Department or Program Name): Zachry Department of Civil Engineering

3. **Course prefix, number and complete title of course:** CVEN 424 Civil Engineering Professional Practice

4. **Change requested**  
   - **Prerequisite(s):** From: CVEN 322; senior classification in civil engineering or ocean engineering.  
   - **To:** CVEN 322 and 399; senior classification in civil engineering.  
   - **Cross-list with:**  
   - **Cross-listed courses require the signature of both department heads.**

5. **Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.**

6. **Is this an existing core curriculum course?**  
   - [ ] Yes  
   - [✓] No

7. **If grade type is changing for existing course, indicate the new grade type:**  
   - [ ] Grade  
   - [ ] S/U  
   - [ ] P/F (CLCD)

8. **If this course will be stacked, please indicate the course number of the stacked course:**  
   - [✓] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control-basics-for-distance-education).

9. **Complete current course title and current catalog course description:**

10. **Complete proposed course title and proposed catalog course description (not to exceed 50 words):**

11. **As currently in course inventory:**

<table>
<thead>
<tr>
<th>Prefix</th>
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<th>Title (excluding punctuation)</th>
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<td>CVEN</td>
<td>424</td>
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**Change to:**

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<th>Lab</th>
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<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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</tr>
</tbody>
</table>

**Approval recommended by:**

- Robin Autenrieth  
  Department Head or Program Chair (Type Name & Sign)  
  Date  
  Chair, College Review Committee  
  Date

- Department Head or Program Chair (Type Name & Sign) (if cross-listed course)  
  Date

**Submitted to Coordinating Board by:**

- Chair, GC or UCC  
  Date  
  Effective Date

- Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 08/14
Supporting Statement – Item 4a (Change in Prerequisites)

CVEN 399 has been added to the course prerequisites. This is a newly created course to implement a high-impact learning practice at the mid-curriculum stage. Requiring it as a prerequisite to CVEN 424 – a senior-level course – ensures proper sequencing of courses in the BS-CVEN curriculum.

The prerequisite “senior classification in civil engineering or ocean engineering” has been changed to delete “or ocean engineering” as the course is not required in the BS-OCEN curriculum and has not had any OCEN students for at least the last 5 semesters offered.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments.

Form Instructions:
1. Course request type:
   - Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Zachry Department of Civil Engineering
3. Course prefix, number and complete title of course:
   CVEN 456 Highway Design

   Attach a brief supporting statement for changes made to items 4a thru 4d and 10 below.

4. Change requested
   a. Prerequisite(s):
      From: CVEN 307 To: CVEN 307 and 398; senior classification; or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

5. Is this an existing core curriculum course?
   □ Yes □ No

6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade □ S/U □ P/F (CLIRMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. As currently in course inventory:

    Prefix | Course # | Title (excluding punctuation) |
    ------ | -------- | -----------------------------|
    CVEN   | 456      | HIGHWAY DESIGN                |

    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    ------ | --- | ------ | ---- | ------------------ | ------------ | --------- | ----- |
    2.00  | 3.00| 0.00   | 3.00| 1408010006        | 0630         | 0 0 3 6 3 2 4  |

   □ Change to:

   Prefix | Course # | Title (excluding punctuation) |
   ------ | -------- | -----------------------------|

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
   ------ | --- | ------ | ---- | ------------------ | ------------ | --------- | ----- |

   Approval recommended by:
   Robin Autenguth 9-29-15
   Department Head or Program Chair (Type Name & Sign)
   Date
   Chair, College Review Committee
   Date
   Department Head or Program Chair (Type Name & Sign)
   (if cross-listed course)
   Date
   Dean of College
   Date

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services
   Date
   Chair, GC or UCC
   Effective Date
   Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Supporting Statement – Item 4a (Change in Prerequisites)

CVEN 399 has been added to the course prerequisites. This is a newly created course to implement a high-impact learning practice at the mid-curriculum stage. Requiring it as a prerequisite to CVEN 456 – a capstone design course – ensures proper sequencing of courses in the BS-CVEN curriculum.

Senior classification has been added to the course prerequisites. This course is used as a capstone design course in one curriculum track. Thus, it should be taken by students very near their graduating term.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments.

Form Instructions:
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering
3. Course prefix, number and complete title of course: CVEN 483 Analysis and Design of Structures

Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

4. Change requested CVEN 365 or registration therein; CVEN 444 and CVEN 446. CVEN 365 or registration therein; CVEN 360, 444, and 446; senior classification; or approval of instructor.
   a. Prerequisite(s): From: CVEN 446.
   b. Withdrawal (reason): __________
   c. Cross-list with: __________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ____________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
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<tbody>
<tr>
<td>CVEN</td>
<td>483</td>
<td>ANALYSIS &amp; DES OF STRUCT</td>
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<th>Lab</th>
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<th>SCH</th>
<th>CIP and Fund Code</th>
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<th>FICE Code</th>
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b. Change to:

<table>
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<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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</thead>
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<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>0036324</td>
<td></td>
<td></td>
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</tbody>
</table>

Approval recommended by:
Robin Autenrieth

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Supporting Statement – Item 4a (Change in Prerequisites)

CVEN 399 has been added to the course prerequisites. This is a newly created course to implement a high-impact learning practice at the mid-curriculum stage. Requiring it as a prerequisite to CVEN 483 – a capstone design course – ensures proper sequencing of courses in the BS-CVEN curriculum.

Senior classification has been added to the course prerequisites. This course is used as a capstone design course in one curriculum track. Thus, it should be taken by students very near their graduating term.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Educational Administration and Human Resource Development

3. Course prefix, number and complete title of course: EHRD 372, Training and Development in HRD

4. Change requested
   a. Prerequisite(s): From: To:
   b. Withdrawal (reason): ____________________________
   c. Cross-list with: ____________________________

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   ✓ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Training and Development in HRD: Theory and applications of training and development in organizations; focus on rapid changes in technology, alterations in the cultures of organizations, dynamic market conditions, and the need for information sharing, planning for ongoing skill development in the for-profit and non-profit sectors.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Learning and Development in HRD: Introductory course designed to equip students with concepts, knowledge and skills to access, design, develop, deliver and evaluate training programs; provide foundation of understanding roles of learning, training and development in organizations and systematic and evidence-based approach for designing and managing quality training programs in organizations.

10. As currently in course inventory:
    Prefix Course # Title (excluding punctuation)
    EHRD 372 TRAINING & DEV IN HRD

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code |
    |-------|-----|-------|-----|-------------------|-------------|-----------|
    | 3.00  | 0.00|       | 3.00| 5210000006       | 0876        | 0102983   |

b. Change to:
    Prefix Course # Title (excluding punctuation)
    EHRD 372 LEARNING & DEV IN HRD

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code |
    |-------|-----|-------|-----|-------------------|-------------|------------|-----------|
    | 3.00  | 0.00|       | 3.00| 5210000006       | 0876        | 16-17      | 0102983   |

Approval recommended by:
Fredrick M. Nafukho
Department Head or Program Chair (Type Name & Sign) 9/13/2015

Chair, College Review Committee 10/4/15

Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Submitted to Coordinating Board by:
Chair, GC or UCC

Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandy-williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Educational Administration and Human Resource Development/ Human Resource Development
3. Course prefix, number and complete title of course: EHCD 372 Training and Development in Human Resource Development

4. Change requested
   a. Prerequisite(s): From: Junior or senior classification and approval of instructor. To: Grade of C or better in EHCD 203 and 210; junior or senior classification; or approval of instructor
   b. Withdrawal (reason): 
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11 a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade ☑ S/U ☑ P/F (CLM)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
   Prefix Course # Title (excluding punctuation)
   EHCD 372 Training and Development in HR
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
   3.00 0.0 0.0 3.00 5210050016 0876 0 0 3 6 3 2 3
   b. Change to:
   Prefix Course # Title (excluding punctuation)
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
   Approval recommended by: Dr. Fred Nashko
   Chair, College Review Committee
   Date: 9/30/15
   Date: 9/30/15
   Date: 9/30/15

Submitted to Coordinating Board by: Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MEMORANDUM

DATE: October 1, 2015

TO: University Curriculum Committee

THROUGH: Christopher Cherry, Assistant Dean

THROUGH: Fredrick M. Nafukho, Professor & Department Head

FROM: Karen Smith, Undergraduate Program Chair

SUBJECT: Change of Course Request for EHRD 372

The Department of Educational Administration and Human Resource Development requests that the course title and description be changed for EHRD 372 from Training and Development in HRD, to Learning and Development in HRD. Many companies recognize that learning through informal and formal training, development and knowledge management helps employees strengthen or increase their skills and knowledge in order to improve performance. Because organizations refer to “training” as “learning”, we request that the title of the course reflect the terminology currently being used.

If you have any questions regarding this request, please feel free to contact me. Thank you for your cooperation in this matter.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate  Graduate  Professional
* Submit original form and attachments *

Form Instructions
1. Course request type:  ✓ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Human Resources Development
3. Course prefix, number and complete title of course: EHRD 374  Organizational Development
   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: Junior or senior classification and approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  □ Yes  ✓ No
6. If grade type is changing for existing course, indicate the new grade type:  □ Grade  □ S/U  □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ✓ 1 verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
   Prefix  Course #  Title (excluding punctuation)
   EHRD  374  Organizational Development
   Leet. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
   3.00  3.00  5210050016  0876  0  3  6  3  2  3
   b. Change to:
   Prefix  Course #  Title (excluding punctuation)
   Leet. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code Level

Approval recommended by:
Dr. Fred Nafukho  
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date
(If cross-listed course)

Submitted to Coordinating Board by:
Chair, GC or UCC  Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@cte.tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Form Instructions
1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Human Resources Development
3. Course prefix, number and complete title of course: EHRD 413 Conflict Management and Dialogue
4. Change requested
   a. Prerequisite(s): From: [instructor]
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [✓] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (C/LMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
10. As currently in course inventory:
   Prefix Course # Title (excluding punctuation) Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
   EHRD 413 Conflict Management and Dialogue 3.00 3.00 5210050016 0876 0 0 3 6 3 2 4
   b. Change to:
   Prefix Course # Title (excluding punctuation) Lect. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code Level
   Approval recommended by:
   Dr. Fred Nakubo
   Department Head or Program Chair (Type Name & Sign) 9/21/2015
   Chair, College Review Committee
   Date
   Date
   Department Head or Program Chair (Type Name & Sign) (If cross-listed course)
   Submitted to Coordinating Board by:
   Chair, GC or UCC
   Date
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ✓ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of English
3. Course prefix, number and complete title of course: ENGL 352 Literature, World War II to Present
4. Change requested
   a. Prerequisite(s): From: ____________________________ To: Junior or senior classification
   b. Withdrawal (reason): ____________________________
   c. Cross-list with: ____________________________
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ✓ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ____________________________
   I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export- controls-export-controls-basics-for-distance-education).
8. Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

   Prefix    Course #    Title (excluding punctuation)
   ENGL      352        Lit World War II to PRES

   Lect.    Lab    Other    SCH    CIP and Fund Code    Admin. Unit    FICE Code Level
   3.00    0.00    0.00    3.00    1601040001    0990    0 0 3 6 3 2 3

   b. Change to:

   Prefix    Course #    Title (excluding punctuation)

   Lect.    Lab    Other    SCH    CIP and Fund Code    Admin. Unit    FICE Code Level

   Approval recommended by: ____________________________
   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee Date
   Dean of College Date

   Submitted to Coordinating Board by: ____________________________
   Chair, GC or UCC Date

   Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MEMORANDUM

Date:      October 6, 2015

To:        Chair
           University Curriculum Committee

Through:   Steve Oberhelman
           College of Liberal Arts
           Associate Dean of Undergraduate Program

From:      Maura Ives
           Department of English
           Interim Head

Subject:   Prerequisite Change for ENGL 352

The Undergraduate Studies Committee of the Department of English recommends eliminating the prerequisite of three credits of literature at the 200-level or above and adding the prerequisite of junior or senior classification. The prerequisite change more accurately reflects the level of the course offering.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions

1. Course request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  Department of English

3. Course prefix, number and complete title of course:  ENGL 497 Independent Honors Studies

4. Change requested
   a. Prerequisite(s): From:  To:
   b. Withdrawal (reason):  
   c. Cross-list with:  

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   ☐ Yes  ☑ No

6. If grade type is changing for existing course, indicate the new grade type:  ☑ Grade  ☐ S/U  ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pdr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

   Directed independent studies in the English language and English or American literature.

   Credits 1 to 3.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

   Directed independent studies in the English language and English or American literature.

   Credits 0 to 3.

10. As currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|------------------------------|
    | ENGL   | 497      | INDEPENDENT HONORS STUDIES  |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code |
    |-------|-----|-------|-----|-------------------|-------------|----------|
    | 3.00  | 0.00| 0.00  | 3.00| 2301010001        | 0990        | 0 3 6 3 2 4|

11. Change to:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|------------------------------|
    | ENGL   | 497      | INDEPENDENT HONORS STUDIES  |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code |
    |-------|-----|-------|-----|-------------------|-------------|----------|
    | 3.00  | 0.00| 0.00  | 3.00| 2301010001        | 0990        | 16 - 17 0 3 6 3 2 4|

   Approval recommended by:

   [Signature]  10/1/15

   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date
   [Signature]  10/20/15

   Dean of College  Date

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   [Signature]  10/23/15

   Curricular Services  08/14

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
English 497: Independent Honors Studies
Texas A&M University
Spring 2016
Lectures: TBA
Instructor: Apostolos Vasilakis
Email: Vasilakis@tamu.edu
Tel: 845-2587
Office: LAAH 356
Office Hours: TBA

Course Description:
Directed independent studies in the English language and English or American literature.

Prerequisites:
Junior or senior classification either as Honors student or with overall GPR of 3.5 and letter of approval from head of student's major department. May be repeated for credit.

Learning Outcomes:
Conduct independent research under the supervision of a faculty member.

Analyze texts critically.

Construct a written critical analysis based on both close-reading and the use of secondary sources.

Requirements:
Prior to the beginning of the semester the student must meet with the instructor to design the schedule for regular meetings during the semester, and to determine the process (including deadlines) of researching and completing the research paper.

Students will submit a research paper proposal, a research paper bibliography, a paper draft and the final paper. Papers that are a result of plagiarism will receive an “F” grade (for a definition of plagiarism see: aggiehonor.tamu.edu/Descriptions/Plagiarism.aspx)

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Paper Proposal</td>
<td>10%</td>
</tr>
<tr>
<td>Bibliography</td>
<td>10%</td>
</tr>
<tr>
<td>Draft of Research Paper</td>
<td>20%</td>
</tr>
<tr>
<td>Final Paper</td>
<td>60%</td>
</tr>
</tbody>
</table>
Grading Policy:
A 90-100
B 80-89
C 70-79
D 60-69
F 0-59


Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute providing comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, B-118 Cain Hall (845-1637). For additional information visit http://disability.tamu.edu.

Reading Material: To be determined by the instructor

Schedule:
Prior to the beginning of the semester the student must meet with the instructor to design the schedule for regular meetings during the semester, and to determine the process (including deadlines) of researching and completing the research paper.

Second Week: Research paper proposal due. 3-5 pages long, typed.
Bibliography of paper instructions.

Fourth Week: Bibliography of primary and secondary sources (number of pages to be determined by the instructor). Draft of paper instructions.

Seventh Week: Draft of research paper.

Fourteenth Week: Final research paper due.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DJS, MD, JD, PharmD) (DVM)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
3. Course prefix, number and complete title of course: ESET 151 - Engineering Leadership

4. Change requested
   a. Prerequisite(s) From: ________________________________ To: ________________________________
   b. Withdrawal (reason)
   c. Cross-list with:______________________________

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-control/export-control-basics-for-distance-education).
8. Complete course title and current catalog course description:

9. Complete current course title and current catalog course description (not to exceed 50 words):

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

   Prefix Course # Title (excluding punctuation)
   ESET 151 Engineering Leadership

   Lecl Lab Other SCH CIP and Fund Code Admin Unit EICE Code Level
   2.00 3.00 3.00 15.0303.00 0 0 3 6 3 2 1

   b. Change to:

   Prefix Course # Title (excluding punctuation)
   ESET 319 Engineering Leadership

   Lecl Lab Other SCH CIP and Fund Code Admin Unit Aced Year FICE Code Level
   2.00 3.00 3.00 15.0303.00 16 17 0 0 3 6 3 2 3

Dr. Jay Porter 10/14/15
Department Head or Program Chair (Type Name & Sign)

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services 08/14

RECEIVED 1/29/2016 CURRICULAR SERVICES
Engineering Leadership

Using Emotional Intelligence to explore ~ experience ~ expand
ESET 319 – Fall 2016

Professor: Dr. Ben Zoghi, PhD, P.E.
Office: Fermier 012
Phone: 979-676-3533
E-mail: zouhi@tamu.edu
Web: http://zouhi.tamu.edu
Class/Lab: Fermier Hall, Room 110, Tuesdays/Thursdays 12:45 – 1:35 (Lab TBA)
Office Hours Tuesdays/Thursdays 10:00 AM – 11:00 PM (Recommend making appointment)

Course Description and Goals:

The purpose of the course is to help you understand the effective practices of leadership, and through this understanding, to help you enhance your own leadership practices and capabilities. The course aims at answering questions such as: Who are leaders? How do the most effective leaders think and act? What competencies do leaders need to lead in a complex, global, and interdependent world? What makes us want to follow leaders? What are the personal costs of being a leader?

We will explore the area of Emotional Intelligence (EQ), identify personal EQ competencies and areas for improvement, and build on these competencies and skills. Manage our emotions, anticipate and work with the emotions of others. We will work individually and in teams, use activities, discussion and reflection to attain our objectives.

We encourage you to be open to change and to cultivate your desire to improve. You can only change yourself—nobody else can change you and you can’t change anyone else! We want you to apply a rigorous process of acting → observing → reflecting → planning → acting… as you work you will build on your strengths and learn to compensate for your weaknesses. You will work together, support one another, and learn a process that should continue throughout your life. Course assignments will be designed to prompt students to actively participate in their learning through critical inquiry; by listening and contributing to class discussion; in reading broadly from research sources and writing original works.

Our work together will be done both during class sessions and between class sessions. Class time will include lectures, discussion, exercises, sharing, feedback, and group work. We will introduce ideas and perspectives and then begin to develop skills. You will participate in some group activities: a “team-building” exercise, a service project, and an in-class presentation.

Prerequisites(s): Junior or Senior Classification

2013
Note: This course is a 3 credit hour, two 50 minutes lecture and 3 hours lab per week. We will be meeting on TR for 75 min rather than 50 minutes, extra times will be hands-on experiential exercises. This will provide us with an opportunity to finish all the labs by the week of the tenth.

Laboratory:

1) Saturday Leadership Development Retreat
2) Between class sessions will be your personal "laboratory"—your opportunity to experiment with new behaviors, observe what happens, reflect on the actions and plan to improve. To help you do this, you'll write brief application papers, and compile a portfolio of emotional intelligence skills throughout the semester, which you'll share with the class at the end of the semester. This process of self-observation and improvement should become a part of your everyday behavior. The activities should be interesting and fun, but will require conscious effort on your part.
3) We will be learning system engineering problem solving skills by studying a top down rather than a bottom up approach to study engineering. Project is to study the functional blocks of a garage door opener, mechanical-electrical-software-materials, and how each module relates to each other.
4) Community services project – Most probably Habitat for Humanity
5) Semester Project: Choose YOUR own project; it must be a COOL project! A final working demo is required, no report is needed.
Attendance and make-up policies:

Regular lecture attendance is required. Students will receive points toward their final grade for attendance and active participation. However, when the student has an unexcused absence for a regularly scheduled lecture or laboratory session, he/she will accept all responsibility for any missed material, announcements, and issued assignments and will receive no credit for missed quizzes or collected assignments. In case of university excused absence, student will get an opportunity to make-up exams and assignments. Website link to student rule 7 is http://studentrules.tamu.edu/rule07

Grading:

Note: All reflection reports must be 3 pages minimum, typed, stapled, cover page, and with your name on it!

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflection Assignments:</td>
<td>150</td>
</tr>
<tr>
<td>#1 MBTI &amp; business card and picture (10)</td>
<td></td>
</tr>
<tr>
<td>#2 Personal Leadership LDP-V1.0 (S&amp;W) (10)</td>
<td></td>
</tr>
<tr>
<td>#3 Personal Motivation (15)</td>
<td></td>
</tr>
<tr>
<td>#4 Trigger Points (15)</td>
<td></td>
</tr>
<tr>
<td>#5 Empathy (23)</td>
<td></td>
</tr>
<tr>
<td>#6 Giving and Receiving Feedback (10)</td>
<td></td>
</tr>
<tr>
<td>#7 Personal Mission Statement (15)</td>
<td></td>
</tr>
<tr>
<td>#8 Personal Leadership Paper - PLDP-V2.0 (consists of progress report every two to three weeks as announced in the class) (50)</td>
<td></td>
</tr>
<tr>
<td>Daily Journaling – Highly Recommended</td>
<td></td>
</tr>
<tr>
<td>Laboratory: (three events, 50 points each)</td>
<td>150</td>
</tr>
<tr>
<td>• Saturday Retreat, Weekly lab activities, and service project</td>
<td></td>
</tr>
<tr>
<td>Class attendance</td>
<td>30</td>
</tr>
<tr>
<td>Exam (100)</td>
<td>100</td>
</tr>
<tr>
<td>YOUR Semester Project</td>
<td>70</td>
</tr>
<tr>
<td>TOTAL</td>
<td>500</td>
</tr>
</tbody>
</table>

450-500, 90 - 100% = A;  
400-449, 80 - 89% = B;  
350-399, 70 - 79% = C;  
300-349, 60 - 69% = D;  
0-299, 0 - 59% = F
Academic Integrity Statement and Policy:
The Aggie Honor Code can be found on the web at: http://aggiehonor.tamu.edu. In short it states: "An Aggie does not lie, cheat or steal, or tolerate those who do."

Americans with Disabilities Act Policy Statement:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637
### Tentative Course Schedule

<table>
<thead>
<tr>
<th>DATE</th>
<th>Tuesdays</th>
<th>Thursdays</th>
<th>Assignments</th>
<th>Labs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1:</strong></td>
<td>Welcome, Class syllabus &amp; policy</td>
<td>What is emotional intelligence? How to improve it? EQ Model. Clusters and Competencies</td>
<td>ESCI-U Assessment You will receive an e-mail to take this online assessment.</td>
<td>No Lab</td>
</tr>
<tr>
<td><strong>Week 2:</strong></td>
<td>ESCI-U Feedback report</td>
<td>Harvard Paper #1 Leadership That Gets Results</td>
<td>ESCI-U Assessment You will receive an e-mail to take this online assessment.</td>
<td>No Lab</td>
</tr>
<tr>
<td><strong>Week 3:</strong></td>
<td>Self-Management: time Management</td>
<td>Procrastination <a href="#">www.studygs.net/schedule</a>/Trigger points</td>
<td>#1 MBTI Web Assessment &amp; Email your picture to me (zoshra.tamu.edu). ESCI-U Assessment Report</td>
<td>Lab Meets</td>
</tr>
</tbody>
</table>

**Relationship Management: (Mandatory)**

3rd Saturday-Leadership Retreat 9-5, Ferminier Hall Room 110

<table>
<thead>
<tr>
<th>Week 4:</th>
<th>Goal Setting</th>
<th>Personal Motivation</th>
<th>#2 ECI Strengths and Weaknesses) and business card <a href="#">www.vistaprint.com</a></th>
<th>Lab Meets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 5:</td>
<td>Trigger Points</td>
<td>Financial Intelligence Mark Mielke, CFP® <a href="#">https://moneywise.tamu.edu</a>/Harvard Paper #2</td>
<td>#4 Personal Motivation</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 6:</td>
<td>One-on-One Coaching</td>
<td>One-on-One Coaching</td>
<td>#3 Trigger points</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 7:</td>
<td>Self-Awareness: Emotional Self-Awareness</td>
<td>Giving &amp; Receiving Feedback</td>
<td>Lab Meets</td>
<td></td>
</tr>
<tr>
<td>Week 8:</td>
<td>Dream: Values &amp; Beliefs</td>
<td>Personal Mission Statement</td>
<td>#5 Giving and Receiving Feedback</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 9:</td>
<td>Social Management: Effective Communication</td>
<td>Effective Communication</td>
<td>#6 Personal Mission Statement</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 10:</td>
<td>Habits of Effective Listeners</td>
<td>Empathetic Listener</td>
<td>Lab Meets</td>
<td></td>
</tr>
<tr>
<td>Week 11:</td>
<td>Student Presentations</td>
<td>Student Presentations</td>
<td>#7 Empathy</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 12:</td>
<td>Student Presentations</td>
<td>Student Presentations PLDP V2.0</td>
<td>#8 PLDP V2.0</td>
<td>Lab Meets</td>
</tr>
<tr>
<td>Week 13:</td>
<td>Presentation</td>
<td>Thursday is Thanksgiving</td>
<td>Lab Meets</td>
<td></td>
</tr>
<tr>
<td>Week 14:</td>
<td>Review</td>
<td>Exam</td>
<td>Lab Meets</td>
<td></td>
</tr>
</tbody>
</table>
Learning Outcomes:

A learning outcome is defined as a statement of what the student will know or be able to do upon successfully completing the course. It must be both observable and measurable. The outcomes may include competencies developed in the course. Learning outcomes define what students need to do to show mastery of course materials.

After completing this course, the student will be able to:
- Identify how outstanding leaders harness the power of positive emotions
- Know the EI Model and its competencies
- Apply EI concepts to themselves and their workplaces
- Identify strategies for enhancing their leadership and emotional intelligence
- Recognize emotions as they occur in themselves and others and use those emotions for positive action
- Identify the impact of motivations on perceptions and on their daily activities
- Articulate their personal values and understand the impact of values on their behavior
- Demonstrate the ability to listen empathetically
- Increase the frequency of getting and giving feedback effectively
- Improve their effectiveness at influencing other people
- Experience collaboration and conflict and demonstrate the ability to manage conflict effectively
- Assess their leadership styles and preferences
- Describe the stages of team development and document those stages in a team project
- Create and implement a plan for personal development

<table>
<thead>
<tr>
<th>Course Objective</th>
<th>Program Outcome (1-16)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To function effectively on teams- By doing multiple experiential exercises as teams</td>
<td></td>
</tr>
<tr>
<td>Ability to identify, analyze and solve technical problems and communicate their findings in verbal and writing individually and as a team. - Problem solving part of their semester project, presentation and their draft concept report.</td>
<td>6,7</td>
</tr>
<tr>
<td>Understanding professional, ethical and social responsibilities. - Service project.</td>
<td>9</td>
</tr>
<tr>
<td>Respect for diversity and knowledge of working in a global market effectively. - Journals, reports, and class discussions.</td>
<td>1,4,5,6,7,12</td>
</tr>
<tr>
<td>Ability to engage and understand the need for self-directed learning</td>
<td>8</td>
</tr>
</tbody>
</table>
1.3 The Social Contract
The social contract is an agreement where individuals seek to create the most effective learning environment for all participants. Individuals are asked to agree to these behaviors guidelines as a way insuring that everyone fully understand what is expected and what is accepted. The social contract states:

| Be Present: |
| Be present mentally, physically and emotionally throughout the class. Be on time. Honor the commitment of others by giving fully of yourself. |

| Pay Attention: |
| Listen to what others say and focus on understanding the ideas. Try to minimize distractions that take your focus away from the activity. |

| Speak Your Truth: |
| Share your thoughts and opinions openly and honestly. Your opinion is as valid as anyone else’s. Don’t hold back your opinions and ideas, what you withhold may be critical piece of information or knowledge that the group needs at the moment. |

| Be Open To Outcomes: |
| Try not to prejudge what is happening. If you have preconceived notions about what you will learn or experience, you may limit your ability to perceive other insights and ideas. |

| Create a Safe Environment: |
| Be aware and sensitive to the impact of what you say and do. Create a level of safety for others to allow them to feel comfortable. Point out any issues or concerns that may affect this safe environment. |
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✦ Graduate ✦ Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (M.D., M.D. Pharm, J.D.)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
3. Course prefix, number and complete title of course: ESET 211, Power Systems and Circuit Applications

4. Change requested
   a. Prerequisite(s): From: ____________________________ To: ____________________________
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes  ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☐ S/U ☐ P/F (CLMRD)
7. If this course will be stacked, please indicate the course number of the stacked course:

   ☑ I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://www.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education/)

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
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<tbody>
<tr>
<td>ESET</td>
<td>211</td>
<td>Power Systems and Circuit Appl</td>
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<th>Lect.</th>
<th>Lab</th>
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b. Change to:

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<td>ESET</td>
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<th>SCH</th>
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<td>0982</td>
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Approval recommended by:
Dr. Jay Porter
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
ESET 211: Power Systems and Circuit Applications
Syllabus
3 Credit course
Fall 2016

Instructor: Walter W. Buchanan, Ph.D., J.D., P.E.
Email: buchananw@tamu.edu
Office Hours: Ferntier Hall, 304D – Time: TBD
Lecture: Thompson 122 TR 9:35 am – 10:50 am
Laboratory: Thompson 204, 501 - W 5:50 pm - 8:20 pm
            502 - R 4:30 pm - 7:10 pm
            503 - M 4:30 pm - 7:10 pm

1 Course Description

Electric and magnetic principles of components used in AC circuits; transient analysis; phasor and circuit analysis; measurement of current, voltage and waveforms with meters and oscilloscopes, AC power analysis, filters, transformers, polyphase systems, and Fourier series

2 Measurable Learning Outcomes

Students will be able to:

I) describe electric and magnetic principles of components used in AC circuits,

III) apply circuit analysis techniques to determine circuit response to constant inputs,

III) compute response of circuits to transient inputs,

IV) solve AC circuits using phasor analysis,

V) employ laboratory equipment to analyze circuit behavior,

VI) describe AC power analysis, filters, transformers, polyphase systems, Fourier series

3 Prerequisites

MATH 152 and ENTC 210, grade of C or better.
4 Required Material


III) ENTC Engineering Notebook, purchased from the IEEE-Tech Parts Store.

IV) Components for each lab. See section "Lab parts."

5 Grading

Attendance, homework, laboratory reports, and exams will be used to evaluate performance with the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>10 %</td>
</tr>
<tr>
<td>Lab (including lab safety)</td>
<td>15 %</td>
</tr>
<tr>
<td>Homework</td>
<td>15 %</td>
</tr>
<tr>
<td>Exams (3, including final)</td>
<td>60 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100 %</strong></td>
</tr>
</tbody>
</table>

Letter grades will be assigned from the numerical total:

- A 90 - 100
- B 80 - 89
- C 70 - 79
- D 60 - 69
- F 0 - 60

For additional information on grading policies please visit: http://student-rules.tamu.edu

6 Exams

There will be two mid-term exams and a final exam. Each student may bring a calculator and a small formula sheet (as big as a playing card) to each exam.

7 Homework

Homework will be assigned after most class sessions, and will typically be due at the start of the Thursday class session. Homework must be individually performed; copied homework answers
will be considered cheating and will receive a grade of '0'. It is recommended, however, that students form groups to discuss how to approach each homework problem.

8 Attendance and Make-up Policy

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. Attendance will be checked at the start of each session. Leaving class for an extended amount of time or mentally disengaging from the class (e.g., sleeping) will result in an absence. University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

Except for University-approved absences, absence from lab, quiz, or exam will result in a grade of '0' for that lab, quiz, or exam. University-approved absence on the date of an exam, for injury or illness less than three days, requires "Confirmation of visit to a health care professional affirming date and time of visit", per the student rules 7.1.6.2. Injury or illness less than three days, method (b). With an uncified approved absence, a make-up will be arranged.

9 Late assignments

Late assignments will not be accepted without a University-approved excuse.

10 Laboratory

Before coming to lab, each student is expected to read the current lab assignment and to prepare a pre-lab of a one paragraph description of the concept covered by the lab. In other words, the pre-lab should explain what the lab is going to teach. The pre-lab must be individually performed. Hand-written pre-labs will not be accepted. Lab experiments may require knowledge of topics not yet covered in the classroom discussions.

Labs will be performed in groups of two students (with one group of three students if necessary). Groups may be re-arranged at any time in the semester so that students get experience working with multiple classmate.

To receive full credit for the lab, each team must show the completed calculations in the lab manual to the lab monitor before leaving the lab. Calculations written anywhere other than the lab manual will not be approved.

Lab reports (one per group) will be due at the beginning of the following lab. These will consist of:

1. A cover sheet (lab title, lab number, group member names, date).

2. The completed original lab sheets with calculations. Anything but the original lab sheets will not be accepted.

3. A one-page description of the concepts covered in the lab. What was the lab's subject? What rules describe how that topic behaves? What was each section trying to teach you? What equations did you need to use? etc. This section must be in your own words, not a
copy of the lab preface, and this should not be a step-by-step recitation of the mechanical actions taken in the lab. This section serves the same purpose as the "Methods" and "Results" sections in a typical lab report.

4. A one-page demonstration of your depth of knowledge on the lab topic, in the form of a description of how one could cover aspects of the topic that the current lab fails to address. Figure out what related topics the lab failed to teach, or which concepts were poorly covered, and explain how one could cover those concepts. For example, if the labs-performed only uses one of the important equations for capacitors, provide example circuits and explain the calculations that would allow one to demonstrate the other important equations. Do not complain about the formatting of the lab manual and do not say that the lab is perfect as-is. This section serves the same purpose as the "Discussion" and "Future Works" of a typical lab report. Computing resources are readily available for you to prepare these reports; hand-written reports will not be accepted. Safety in the lab is paramount. There are no chemicals, compressed gasses, or hazardous wastes allowed in the lab. Be careful when dealing with circuits and power supplies to avoid connecting an active circuit through the body. Keep workspaces clean and tidy. Report minor injuries to the lab monitor. Call 911 in the event of an emergency. Lab safety violations will result in lab grade penalties.

11 Lab parts

Each student is required to bring to each lab session the equipment necessary for that lab: read board, bread board wires, four banana-to-alligator cables, one BNC-to-alligator cable, and the components listed at the beginning of each lab. Failure to bring the necessary equipment will result in a grade penalty. Most of the required parts are necessary for other ENTC classes, and all of them can be purchased from online retailers and/or the IEEE-Tech Parts Store in Thompson Hall.

12 Americans with Disabilities Act

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

13 Honor Code

"An Aggie does not lie, cheat, or steal or tolerate those who do." Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor
System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information please visit: http://aggiehonor.tamu.edu/

### 14 Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter</th>
<th>Topic</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 - 13</td>
<td>Intro., and AC Review</td>
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</tr>
<tr>
<td>2</td>
<td>14</td>
<td>RCL, Power Factor, Phasors</td>
<td>AC.7: Oscilloscope and Phase Measurements</td>
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<tr>
<td></td>
<td>15 - 16</td>
<td>AC Series-Parallel, Parallel RCL Circuits</td>
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<tr>
<td>3</td>
<td>16</td>
<td>AC Voltage and Current Division</td>
<td>AC.5: Frequency Response of the Series R-L</td>
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<tr>
<td>4</td>
<td>17 &amp; 20</td>
<td>Ladder Networks and AC Power</td>
<td>AC.10: Series-Parallel Sinusoidal Circuits</td>
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<tr>
<td>5</td>
<td>18 &amp; 19</td>
<td>AC Circuit Analysis</td>
<td>MultiSIM &amp; UltiBoard</td>
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<td>6</td>
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<td>Exam I</td>
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<td>7</td>
<td>21</td>
<td>Resonance</td>
<td>AC.12: Thevenin’s Theorem</td>
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<tr>
<td>8</td>
<td>21</td>
<td>Resonance</td>
<td>AC.13: Series Resonant Circuits</td>
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<tr>
<td>9</td>
<td>22</td>
<td>Filters</td>
<td>AC.15: Passive Filters</td>
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<td>10</td>
<td>23</td>
<td>Transformers and Power</td>
<td>LabVolt 5-2: Vectors and Phasors in Series AC Circuit</td>
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<tr>
<td>11</td>
<td>24</td>
<td>Polyphase Systems and Generators</td>
<td>LabVolt 5-1: Power in AC Circuits</td>
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<tr>
<td>12</td>
<td></td>
<td>Exam II</td>
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<tr>
<td>13</td>
<td>26</td>
<td>Fourier Series and Motors lees</td>
<td>MATLAB</td>
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<tr>
<td>14</td>
<td></td>
<td>Preparation for Final Examination</td>
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Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments.

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
3. Course prefix, number and complete title of course: ESET 352, Electronics Test 1
   Attach a brief supporting statement for changes made in items 4a, 4d, and 10 below.
4. Change requested:
   a. Prerequisite(s): From: ESET 350 To: ESET 320 and ESET 350 with a grade of C or better.
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9, enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/III ☐ P/F (4/14)
7. If this course will be stacked, please indicate the course number of the stacked course: ☐
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export- controls/export-control-by-country, for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
   
<table>
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<th>Admin. Unit</th>
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<table>
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   b. Change to:

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</table>

Approval recommended by:

Dr. Jay Porter [Signature] 10/15
Department Head or Program Chair (Type Name & Sign)

Chair, College Review Committee [Signature] [Date]

Dean of College [Signature] [Date]

Department Head or Program Chair (Type Name & Sign) [Date]
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamuk.edu.
Curricular Services – 08/14
Supporting statement for change in pre-requisite structure for ESET 352:

ESET 352 is a very data intensive course. Topics covered in the course focus on semiconductor device testing using state-of-the-art semiconductor testers donated from industry. Since the semiconductor device industry manufactures millions of chips per device, much of the testing and product valuation requires a firm understanding of statistics. ESET 329 is our statistics course and is appropriate from an educational purpose as a pre-requisite for ESET 352.
Instructor:
Dr. Rainer Fink, Associate Professor, Engineering Technology and Industrial Distribution Department, Texas A&M University, fink@tamu.edu

Responsible Faculty Member:
Dr. Rainer Fink, Associate Professor, Engineering Technology and Industrial Distribution.

Class Meeting Times:
TR 12:45 – 2:00 pm – THOM 122
Lab Meeting Time:
F 1:50 pm – 4:30 pm – THOM 010
R 9:35 am – 12:15 pm – THOM 010

Course Description:
ESET 352 is a course on the testing of analog and mixed-signal devices and systems. The integration of analog and digital circuits in one chip requires a high tech solution to testing. Course material covers the basic concepts of testing devices and systems: test specifications, parametric testing, measurement accuracy, test hardware, sampling theory, digital signal processing based testing, and calibrations. Students perform both circuit analysis (2/3) and circuit design (1/3) with several analog and mixed-signal systems.

Prerequisites(s):
ESET 350 and ESET 329(C or better), Junior or Senior Classification

Textbook(s) and Other Required Material:

Course Learning Outcomes:
At the end of this course, students will be able to:
1. Generate the test plan required to validate functional parameters of mixed-signal circuits.
2. Analyze circuit designs to evaluate test options and limitations.
3. Use state-of-the-art semiconductor testing equipment
4. Present clearly and concisely the content of test plans and test results both in verbal as well as written form.
Topics Covered:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Lectures</th>
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<tbody>
<tr>
<td>Overview of Testing</td>
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<td>The Test Specification Process</td>
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<td>Test Plan Generation</td>
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<td>Measurement Accuracy</td>
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<td>Test Hardware</td>
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<tr>
<td>Sampling Theory</td>
<td>4</td>
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<tr>
<td>DSP Based Testing</td>
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<tr>
<td>Block to Block Interaction Testing</td>
<td>3</td>
</tr>
<tr>
<td>Statistics in Test</td>
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<tr>
<td>Calibrations</td>
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<tr>
<td>Final Exam</td>
<td>1</td>
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<tr>
<td>Total Hours</td>
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Class/Laboratory Schedule:
This course meets for lecture twice a week for one and one quarter hours. The students also attend a three hour laboratory session once a week. Finally, all students are given open access to the lab and are expected to spend additional time in supervised and unsupervised open lab.

<table>
<thead>
<tr>
<th>TOPIC</th>
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<tbody>
<tr>
<td>Lab 1 requires – 2 weeks</td>
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<tr>
<td>Test Hardware</td>
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<tr>
<td>Software Interface</td>
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</tr>
<tr>
<td>– Using Programming Workbooks</td>
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<tr>
<td>– Program Validation</td>
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<tr>
<td>DCVI Instruments</td>
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<tr>
<td>– Programming</td>
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<tr>
<td>– Debugging</td>
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<td>Lab 2 requires – 2 weeks</td>
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<tr>
<td>DCVI- Time measurements</td>
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<tr>
<td>– DCTime Orientation</td>
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<tr>
<td>– DCTime Programming: Tester Assisted</td>
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<tr>
<td>– DCTime Programming: Event Capture (manual mode)</td>
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<tr>
<td>Lab 3 requires – 2 weeks</td>
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<tr>
<td>High Speed Digital Instruments</td>
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<tr>
<td>– Hardware Overview</td>
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<tr>
<td>– HSD200 Programming Data, Timing, Edges and Formats: Time Sets (Basic) Sheet</td>
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<td>– HSD200 Programming Levels (Pin Levels Sheet)</td>
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<td>– HSD200 Programming in VBT</td>
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<tr>
<td>Task Description</td>
<td>Duration</td>
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<td>------------------</td>
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</tr>
<tr>
<td>ASCII Pattern File</td>
<td>2 weeks</td>
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<tr>
<td>Compiling ASCII Pattern Files</td>
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</tr>
<tr>
<td>Using the Pattern Tool</td>
<td>2 weeks</td>
</tr>
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</table>

**Lab 4 requires 2 weeks**

**Test Techniques**
- Parameter Sets (PSets)
- Executive Interpose Functions
- Comparing Signals and PSets
- Using DCVI PSets and POP

**Lab 5 requires 3 weeks**

**High Power DCVI Instruments**
- Unique Programming Concerns
- Hot Switching

**Lab 6 requires DCVI-90 Instrument used as a DIFFEMETER 3 weeks**

**Method of Evaluation:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Test Plan Project</td>
<td>100</td>
</tr>
<tr>
<td>Presentation</td>
<td>300</td>
</tr>
<tr>
<td>Test Plan Documentation</td>
<td>300</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300</td>
</tr>
<tr>
<td>Laboratory</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1000</td>
</tr>
</tbody>
</table>

**Grading Scale:**
- A: 900 and above
- B: 800 to 899
- C: 700 to 799
- D: 600 to 699
- F: less than 600

**Quizzes:** Random quizzes will be given to determine areas which need improvement. There will be no make-up quizzes except for excused absences. Quiz grades will be averaged into the lab grade.

**Laboratory:** The lab exercises have been developed to give the student practice in the experimental setup, measurement, and analysis of electronic circuits and systems. The students are expected to read the current lab assignment and to prepare before coming to class.

**Lab requirements will be set during lab and can/will change based upon the lab being completed. You will be working with state-of-the-art test equipment that may fail at any time. Every effort will be made so that you can be successful in completing your assignments.**

**The lab is not optional. Missed labs and/or missing lab reports without a documented university excused absence will result in an ‘F’ in the class. Also, a failing grade in the lab will result in an ‘F’ in the class.**
Tardiness: Both homework and lab assignments will be turned in at the beginning of class on the due date. Late assignments will not be accepted without either a valid university approved excuse or prior consent from the professor. (The lab teaching assistant does not have the authority to excuse a late assignment or an absence.)

Attendance: Attendance in lecture is required, and only documented university approved absences will be allowed. Please refer to Rule 7 in the student rules and regulations at: http://student-rules.tamu.edu

American with Disabilities (ADA) Policy Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity Syllabus Statement

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Student Rules
Student rules and regulations can be found at: http://student-rules.tamu.edu

Prepared By: Rainer Fink, August 31, 2015
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): ETID/Electronic Systems Engineering Technology
3. Course prefix, number and complete title of course: ESET 419 Engr Tech Capstone I

4. Change requested
   a. Prerequisite(s): From: ESET 333, ESET 369 To: ESET 319, ESET 333, ESET 369 with a grade of C or better.
   b. Withdrawal (reason):
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLAD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls-export-control-basics-for-distance-education).
8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. As currently in course inventory:

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</table>

Approval recommended by:
Dr. Ron Petty 10/14/15

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date (if cross-listed course)
Dean of College Date

Submitted to Coordinating Board by:
Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-0201 or sandra.williams@tamu.edu.
Curricular Services - 08/14
Brief Supporting Statement – ESET 419

ESET Program has upgraded the content and expectations of its leadership course and will now offer it as a 300-level course. Based on these changes, it is appropriate that the course now be included as a prerequisite for the two-semester Capstone Design sequence which begins with ESET 419. This change will allow ESET students to gain more experience in working in teams and developing better communications skills prior to entering Capstone.
ENTC 419: Engineering Technology Capstone I
Spring 2016
MW 4:10 - 5:25
F110

COURSE DESCRIPTION:
ENTC 419 Engineering Technology Capstone I. Project management tools for a System Design Process
document address scope, schedule, risk, cost, milestones and deliverables; planning and initial design of
prototype to be implemented in ENTC 420; teams must have sponsor and technical advisor. Credit 3 (3
Lecture, 0 Laboratory)

PREREQUISITE:
Prerequisites: C or better in ENTC 319, 333 and 369 and senior classification.

The capstone design experience (ENTC 419 followed by ENTC 420) is intended to be completed by students
during the last two major semesters of their undergraduate education program. As such, students should be
within one major semester of graduation prior to enrolling in ENTC 419. Students not meeting this
requirement will be dropped from the course. Students should understand and appreciate that there are
several prerequisites that must be satisfied prior to being registered in ENTC 420. Not meeting all of
these prerequisites could result in retaking ENTC 419. It is the student’s responsibility to work with the
program director and academic advisor to ensure he/she meets this prerequisite requirement.

PURPOSE OF COURSE
ENTC 419 encompasses four primary areas. First, students should gain an introduction to the fundamentals of
engineering/technical project management principles. Second, this course offers the student opportunity to
develop the components necessary to satisfy the initial requirements of ENTC 420, Engineering Technology
Capstone II. These components include evaluating and selecting the project, the sponsor, the faculty advisor,
the project team, and generating potential project Quad Charts, System Design Process documentation and an
initial prototype design including Version 1 of the schematic. Third, students enrolled in ENTC 419 will have
the opportunity to interact with engineers working in the public and private sectors through a series of guest
lecturers and seminars. Finally, ENTC 419 has been chosen by the EET/TET faculty members to satisfy the
requirements of a Communications (C) Course required of all students graduating on or after catalog 130.
Successful completion of this course provides the student with the tools and knowledge necessary to plan,
execute, manage, control and document a valuable and beneficial capstone design experience while gaining
significant insight into why these factors are important to the student’s professional development.

LEARNING OUTCOMES / COURSE OBJECTIVES:
Student working individually and in small teams will achieve the following learning outcomes:
1. Form teams and conduct product development activities as a startup company.
2. Construct and maintain team web page.
3. Using project management concepts and toolsets, create a comprehensive plan with associated
documentation for the Capstone project.
4. Create the preliminary design for an embedded intelligence prototype to be delivered to the
sponsor/customer at the conclusion of Capstone II (ENTC 420).
5. Develop and deliver Preliminary Design Review.
6. Manage all stakeholder expectations and interactions.
8. Construct detailed timeline of design, development, and test activities.
9. Prepare and justify complete costing budget.

INSTRUCTOR: Dr. Joseph A. Morgan, D.E., P.E.
OFFICE: Fermier 111
LAB: MISL – Fermier 006, Product Innovation Cellar – T009A
PHONE: Cell: 979-575-0128
TEXTBOOK:
Recommended  Successful Project Management, Gido and Clements. ISBN 0-538-88152-

REFERENCE:

MATERIALS:
Students are responsible for providing their own materials for all assignments. In addition, each student must have all assignments available on a removable media device - a thumb drive is recommended. This form of soft copy will allow all students to readily present materials during class from the podium. In addition, each team should establish an online repository for all project documentation and provide access to this resource to all project stakeholders including the course director and project advisor.

GRADING:
The final grade each student receives will be based on individual work and on the work generated by the team. To receive a passing grade (C or Better), each student SHALL:
1. satisfactorily complete all individual and team assignments,
2. receive a grade of 70 or better on the final exam, and
3. receive a team grade of 70 or better on the System Design Process document

The following table includes the elements that are used in determining the student’s final course grade.

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<thead>
<tr>
<th>Element</th>
<th>Type</th>
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<td>SDP Presentation</td>
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<td>Preliminary SDP Document</td>
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<td>Planning Memo</td>
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<td>Schematic Review</td>
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<td>.10</td>
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<tr>
<td>Web Page</td>
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<td>.10</td>
</tr>
<tr>
<td>Final Exam</td>
<td>I</td>
<td>Determines highest grade possible</td>
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</table>

Potential Project Quad Charts  two submitted, one graded by peers
SDP Presentation  Presented to Project Sponsor and Advisor, the 419 and 420 Course Instructors, other ENTC 419 students, and invited guests.
Preliminary SDP  Includes prototype design performance requirements, major project milestones/deliverables and test matrix.
Planning Memo  Individually generated memo that coordinates a basic element of project with stakeholders
Final SDP  Team effort with individual responsibility for sections of report
Schematic Review  Team develops and conducts a review of their Version 1 Schematic
Project Web Page  Communicates with text, images, animation, sound and video
Final Exam  Must receive a 70% or higher
Attendance
Bonus Assignments:  Points per assignment based on quality and quantity of Bonus Assignment used to reduce absence deduction and then added to final exam grade. Bonus Assignments will generally be 3-4 points each. (Must be “approved” prior to Week 7)
FINAL COURSE GRADE:

100 – 90 = A
89 – 80 = B
79 – 70 = C
69 – 60 = D
59 or less = F

Each student will receive a course grade based on the above individual and team performance. The following factors will impact the final course grade each student receives:

• Attendance and participation are the two most important factors in benefiting from this course. Attendance will be taken via a sign-up roster that will be distributed sometime during each class. For each unexcused absence, 5 points will be deducted from your final COURSE grade. It is your responsibility to ensure that YOU sign the attendance roster – no one can sign for YOU.

• A primary portion of the student’s grade is for written/oral assignments. Grading of these assignments will focus on technical content and ability to communicate concepts effectively, but will also include assessment of style, format, grammar, punctuation, spelling, etc. A course grade of C or better in ENTC 419 requires that all assignments be completed in satisfactory manner.
you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

*Academic Integrity Syllabus Statement*

"An Aggie does not lie, cheat, or steal or tolerate those who do."

For questions about honor code violations or the review/appeal process see:

http://aggiehonor.tamu.edu
# ENTC 419
## Project Management

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<tr>
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<td>Course overview, assignments and ENTC 420 expectations/prerequisites</td>
</tr>
<tr>
<td>2</td>
<td>Project management processes overview / Quad Charts</td>
</tr>
<tr>
<td>3</td>
<td>WBS / SDP</td>
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</table>
| 4    | Individual potential project Quad Charts / RAM  
Random selection (names called from class roster - not from those attending) |
| 4    | NLD |
| 5    | System Design Process |
| 6    | Preliminary Design Review --- System Design Process Presentations |
| 7    | Version 1 – SDP Documents |
| 8    | Risk Management |
| 9    | Cost Analysis and Project Pricing |
| 10   | Project Control and Earned Value |
| 11   | SDP Review |
| 12   | Special Topics |
| 13   | Special Topics |
| 14   | Final SDP Documents  
TAT Meeting Requirements and Presentations |
| 15   | Final Exam – see University Final Exam Schedule for date and time |

Presentation of the above topics is subject to change based on the availability of guest lecturers from industry and ELE Seminars.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ▶ Graduate ▶ Professional
Submit original form and attachments.

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DOS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Finance
3. Course prefix, number and complete title of course: FINC 485 Directed Studies
4. Change requested: Medicaid coordination; approval of department head
   a. Prerequisite(s): Finance major and senior classification; approval of department head
   b. Withdrawal (reason):
   c. Cross-list with:

Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: □ Yes □ No
7. If this course will be stacked, please indicate the course number of the stacked course:
□ I verify that I have reviewed the FAQ for Export Controls/Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description: Directed Studies. Credit 1 to 3 each semester. Directed study on selected problems in the area of finance not covered in other courses. Prerequisites: Finance major and senior classification; approval of department head.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Directed Studies. Credit 0 to 6 each semester. Directed study of selected problems in the area of finance not covered in other courses. Prerequisites: Approval of department head; FINC 351 and FINC 361; ACCT 328 or concurrent enrollment.

11. a. As currently in course inventory:

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Approval recommended by:

R. T. Dye 9/15/15
Department Head or Program Chair (Type Name & Sign)
Date

Chair, College Review Committee 10/15/15
Date

Dean of College 10/15/15
Date

Submitted to Coordinating Board by:

Chair, GC or UCC
Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sara.williams@tamu.edu.
Curricular Services – 08/14
FINC 485 — DIRECTED STUDIES  
Section 501 — Fall 2016

Instructor: TBD  
Office: TBD  
Phone: TBD  
E-Mail: TBD  
Office Hours: TBD

COURSE DESCRIPTION

FINC 485 is a customized problems course supervised by a faculty member. Students request creation of a FINC 485 section by submitting an Application for Problems Course (attached) to the department head. The Application specifies credit hours (subject to approval from the directing faculty member and the department head), along with a description of the problems to be addressed and the techniques that will be used to tackle the problems. By design, learning objectives are unique for every section of FINC 485.

COURSE LEARNING OUTCOMES

At the completion of the course, successful students should be able to:

- Apply concepts learned in required FINC courses to solve academic or business-related problems that are not encountered in other established courses.

For example, a recent multi-disciplinary directed studies course provided students of finance, marketing, supply chain management and engineering an opportunity to work together with Boeing to develop a business plan for delivery of small packages and goods using autonomous air vehicles such as quad copters. Finance-related objectives for the project include:

- Measure potential demand for autonomous delivery services.
- Specify financial operational requirements and performance objectives.
- Create a business plan and budget for the project.

CATALOG DESCRIPTION

Directed study of selected problems in the area of finance not covered in other courses.

COURSE PREREQUISITES

Approval of department head; FINC 351 and FINC 361; ACCT 328 or concurrent enrollment.
COURSE MATERIALS

Course materials vary by project and may include academic textbooks, practitioner-oriented publications, or materials provided by a corporate business partner.

GRADING AND COURSE REQUIREMENTS

Students are required to submit deliverables required by the project (such as a business plan in the Boeing example) or to submit a paper describing the problems encountered and approaches used to solve the problems. Letter grades follow the standard 90/80/70/60 scale.

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<td>D</td>
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Required deliverables or term paper | 100%

ATTENDANCE POLICY

The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments.

MAKE-UP WORK POLICY

Students with excused absences will receive adequate time and opportunities to submit the required deliverables that are delayed due to those absences. To submit work under the "make-up" policy requires documentation as specified in the TAMU student rules (see Student Rules: Rule 7 – http://student-rules.tamu.edu).

Students with unexcused absences will receive no credit for missed deliverables.

LATE WORK POLICY

Any course deliverable turned in late will be discounted by 10% per day. "Late" means submitting deliverable any time after the assignment deadline has passed. Deliverables submitted more than 72 hours late will not be graded.

Exception: Students with excused absences will receive adequate time and opportunities to submit work they missed due to absence. Students must provide documentation and notice to the instructor as specified in TAMU student rules. (Student Rules: Rule 7 -- http://student-rules.tamu.edu).
STUDENTS WITH DISABILITIES

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 979-845-1637. For additional information visit http://disability.tamu.edu.

AGGIE HONOR CODE

"An Aggie does not lie, cheat, or steal or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. You can learn more about the Honor Council Rules and Procedures as well as your rights and responsibilities at the following URL:

http://aggiehonor.tamu.edu

For each assignment or project that is submitted for grading in this course, students must affirm their commitment to the Aggie Honor Code with the following statement.

"On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."

Even if you do not explicitly state the above, by submitting any course deliverable, you affirm your adherence to the Aggie Honor Statement for that deliverable.

“Texas A&M University students are responsible for authenticating all work submitted to an instructor. If asked, students must be able to produce proof that the item submitted is indeed the work of that student. Students must keep appropriate records at all times. The inability to authenticate one’s work, should the instructor request it, is sufficient grounds to initiate an academic dishonesty case.” (http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx)

I will follow the steps and processes outlined in the Honor Council Rules and Procedures in all cases of academic misconduct in this class (see http://aggiehonor.tamu.edu/RulesAndProcedures).

STATEMENT ON PLAGIARISM

As commonly defined, plagiarism consists of passing off as one’s own, ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic offenses, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please review additional information provided under Student Rule 20 and Aggie Honor System Rules under “Plagiarism” (see Student Rule 20 http://student-rules.tamu.edu and Aggie Honor System Rules http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx).
**Food and Drink in the Classroom**

We have beautiful, state-of-the-art classrooms in the Wehner Building. We want to maintain the high quality of these classrooms for current and future students. Thus, it is necessary for you to adhere to the established policy of no beverages (except water), food, tobacco products, or like items within the Wehner Building classrooms.

**Course Schedule**

By its nature, the directed studies course does not have regular meeting times. Students meet with the instructor periodically on an as-needed basis.
To: Dr. Sorin Sorescu  
    FINC Department Head

From: ___________________________________________  ________________________
    Name of Applicant (Please Print)  UIN

Subject: Request for enrollment in FINC 485 Directed Studies

1. I request enrollment in FINC 485 for the Spring / Summer / Fall semester, 20____ for _____ semester hours credit.

2. ___________________________ has agreed to direct this study.
    (Full name of faculty supervisor)

3. Describe briefly the problems to be solved. Add additional pages as necessary.

4. Describe the technique you will use to solve the problem(s). Provide a brief overview of experiments, statistics, readings, observations, etc., that will be employed.

5. I have read and I understand the general directions on the reverse side of this application. My grade point average is _____, which meets the departmental requirement (3.0 or better overall and in FINC) for enrolling in a problems course.

6. I will submit three copies of this form, one each for the department head, faculty supervisor, and myself.

    Applicant Signature  Date

    Faculty Supervisor Signature  Date

    Department Head Signature  Date

Application for Directed Studies Course 485, Page 1 of 2
Certain programs and colleges limit the total number of seminar, research, or directed studies courses that can appear in a curriculum. It is the student’s responsibility to consult with an advisor to determine whether or not this problems course can appear in your degree plan.

Required activities for a Directed Studies course must be consistent with course loads for regularly scheduled courses. It is the faculty supervisor’s responsibility to ensure that course requirements are adequate for the number of credit hours registered.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate  Graduate  Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:  ✔ Undergraduate  ❏ Graduate  ❏ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES
3. Course prefix, number and complete title of course:  FREN 300 COMPOSITION

4. Change requested
   a. Prerequisite(s):  From:  To:  
   b. Withdrawal (reason):  
   c. Cross-listed with:  
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  ❏ Yes  ✔ No
6. If grade type is changing, for existing course, indicate the new grade type:  ❏ Grade  ✔ S/U  ❏ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:  
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://wvr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:  
   Composition. Development of writing skills in French; emphasis on grammatical constructions; structural analysis of representative texts and their imitation; expression of hypotheses; descriptive and explanatory writing; required for modern languages majors in French; conducted in French.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Written Communication in the French-Speaking World. Strategies for effective communication in the written language; active production of a variety of narrative, expository, analytical, persuasive, and epistolary texts, with special attention to language appropriate to various social, professional, and cultural contexts both in French and in the Francophone world; conducted in French.

11. As currently in course inventory:

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</tbody>
</table>

Approval recommended by:
ROBERT R. SHANDLEY
Department Head or Program Chair (Type Name & Sign)  Date 10-19-15
Chair, College Review Committee  Date
Dean of College  Date 10-20-15

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and attachments

Form Instructions

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DMD, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES

3. Course prefix, number and complete title of course: FREN 301 FRENCH CULTURE AND CIVILIZATION

4. Change requested
   a. Prerequisite(s): From: ____________ To: ____________
   b. Withdrawal (reason): ____________
   c. Cross-list with: ____________

   Cross-listed courses require the signature of both the department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ S/U ☑ F/IP (CL/MD)

7. If this course will be stacked, please indicate the course number of the stacked course: ____________

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   French Culture and Civilization. Cultural background of French language and literature; salient aspects of the geography and history of France; characteristic elements of French culture; illustration of major stylistic periods in literature and the fine arts; conducted in French.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   French Society and Culture in Evolution. Events, figures, monuments, laws, and cultural productions, texts, and events participating in the evolution of French institutions, religion, socio-economic structures, marriage, sexuality, and identities from the Gallo-Roman period through May ‘68; conducted in French.

10. As currently in course inventory:
    Prefix Course # Title (excluding punctuation)
    FREN 301 FRENCH CULTURE AND CIVILIZATION
    Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
    3.00 0.00 0.00 3.00 1690610001 1663 0 0 3 6 3 2 3

11. Change to:
    Prefix Course # Title (excluding punctuation)
    FREN 301 FRENCH SOCIETY AND CULTURE
    Lect. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code Level
    3.00 0.00 0.00 3.00 1690610001 1663 16 - 17 0 0 3 6 3 2 3

Approval recommended by:
ROBERT R. SHANLEY
Department Head or Program Chair (Type Name & Sign) 12/29/15
Date

Chair, College Review Committee 10-19-15
Date

Dean of College 10-20-15
Date

Chair, GC or UCC 10-23-15
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✩ Graduate ✩ Professional
Submit original form and attachments.

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES
3. Course prefix, number and complete title of course: FREN 311 ADVANCED ORAL EXPRESSION

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ___________________________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   Advanced Oral Expression. Strategies for effective communication in spoken French with special attention to language appropriate to various social contexts; analysis of press articles, television and radio programs; oral presentations; conducted in French.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Oral Communication in the French-Speaking World. Strategies for effective communication in the spoken language; case studies in economic, political, cultural, social, and environmental issues as presented through the press and audio-visual media of France and the Francophone world; conducted in French.

11. a. As currently in course inventory:
    Prefix Course # Title (excluding punctuation)
    FREN 311 ADVANCED ORAL EXPRESSION
    Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code
    3.00 0.00 0.00 3.00 1609010001 1663 0 3 6 3 2 3
    b. Change to:
    Prefix Course # Title (excluding punctuation)
    FREN 311 ORAL COMMUNICATION IN FRENCH
    Lect. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code
    3.00 0.00 0.00 3.00 1609010001 1663 18 - 17 0 3 6 3 2
    Level 3

Approval recommended by:
ROBERT R. SHANDLEY
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date
Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14

RECEIVED D OCT 23 2015 CURRICULAR SERVICES
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES
3. Course prefix, number and complete title of course: FREN 321 Survey of French Literature I

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: ______________________ To: ______________________
   b. Withdrawal (reason): ______________________
   c. Cross-list with: ______________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ______________________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ypr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:
   Survey of French Literature I. Masterpieces of French poetry, prose and theater from the Middle Ages through the seventeenth century, with special attention to the place of each work's significance to the evolution of French society and culture; conducted in French.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    French Literature I. Representative works of French poetry, theater, essays, and novels in the historical, cultural, and political context of French society from the Middle Ages through the 18th century; conducted in French.

11. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
   ------ | -------- | ----------------------------- | ----- | --- | ------ | --- | -------------- | ---------- | -------- | ----- |
   FREN | 321      | SURVEY OF FRENCH LITERATURE I | 3.00  | 0.00| 0.00  | 3.00 | 1609010001     | 1663       | 0 0 3 6 3 2 | 3     |

   Approval recommended by:
   ROBERT R. SHANDLEY
   Department Head or Program Chair (Type Name & Sign) Date
   Nancy Johnson 10-19-15
   Chair, College Review Committee Date
   Dean of College (If cross-listed course) Date

   b. Change to:

   Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |
   ------ | -------- | ----------------------------- | ----- | --- | ------ | --- | -------------- | ---------- | ---------- | -------- | ----- |
   FREN | 321      | FRENCH LITERATURE I           | 3.00  | 0.00| 0.00  | 3.00 | 1609010001     | 1663       | 16 - 17    | 0 0 3 6 3 2 | 3     |

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

   Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
   Curricular Services – 08/14

   Received curricular services
   Date OCT 23 2015

   Effective Date
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES
3. Course prefix, number and complete title of course: FREN 322 Survey of French Literature II

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: To:
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and 11b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and 11b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vrr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Survey of French Literature II. Masterpieces of French poetry, prose and theater from the Enlightenment through the twentieth century, with special attention to the place of each work's significance to the evolution of French society and culture; conducted in French.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   French Literature II. Representative works of French and Francophone novels, plays, poetry and essays reflecting the societies and cultural experience of French-speaking people in the 19th, 20th and 21st centuries; conducted in French.

10. As currently in course inventory:

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Approval recommended by:

ROBERT R. SHANDLEY
Department Head or Program Chair (Type Name & Sign) Date 12/24/15

Chairs of College Review Committee Date 10-19-15

Dean of College Date 10-20-15

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions:
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ Professional ( DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES

3. Course prefix, number and complete title of course: FREN 336 CONTEMPORARY FRANCE

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes □ No

6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade □ S/U □ P/F (CLAIM)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Contemporary France. Cultural, economic and political aspects of present-day French society, including educational institutions, modern families, gender roles, entertainment and leisure, social classes and lifestyles, French and American cultural differences, and treatment of these issues in French media; conducted in French.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Politics, Culture, and Society in Contemporary France. Salient aspects of present-day French society and culture, including government, demographics, immigration, education, families, gender roles, entertainment and leisure, social classes, and cross-cultural tensions; conducted in French.

10. a. As currently in course inventory:

Prefix | Course # | Title (excluding punctuation) | Lect | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code
-------|-----------|--------------------------------|------|-----|-------|-----|------------------|-------------|-------
FREN   | 336       | CONTEMPORARY FRANCE            | 3.00 | 0.00| 0.00  | 3.00| 1609010001       | 1683        | 0 0 3 6 3 2 3 |

b. Change to:

Prefix | Course # | Title (excluding punctuation) | Lect | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code
-------|-----------|--------------------------------|------|-----|-------|-----|------------------|-------------|-------
FREN   | 336       | POL-CULT-SOCIET CONTEMP FRANCE | 3.00 | 0.00| 0.00  | 3.00| 1609010001       | 1683        | 0 0 3 6 3 2 |

Approval recommended by:
ROBERT R. SHANDLEY

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date
Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14

RECEIVED
OCT 23 2015
CURRICULAR SERVICES
The Department of International Studies requests changes in course title and description for the following courses: FREN 300, FREN 301, FREN 311, FREN 321, FREN 322, and FREN 336. These changes are a reflection of the broader emphasis of French studies to include the culture and society of the French-speaking world both within and outside of mainland France, as well as their mutual relationship.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: [✓] Undergraduate [□] Graduate [□] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): INTERNATIONAL STUDIES

3. Course prefix, number and complete title of course: FREN 475 THE FRANCOPHONE WORLD

4. Change requested

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<th>From:</th>
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<td>FREN 202 or equivalent; junior or senior classification.</td>
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<td>c. Cross-list with:</td>
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Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? [□] Yes [✓] No

6. If grade type is changing for existing course, indicate the new grade type: [□] Grade [□] S/U [□] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

[□] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vrc.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:
The Francophone World. The peoples, cultures and societies of French-speaking communities outside of France, with special attention to their colonial origins and current issues of politics, identities and migrations as represented in works of film and literature.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
The Francophone World. The peoples, cultures and societies of French-speaking communities outside of France, with special attention to their colonial origins and current issues of politics, identities, and migrations as represented in the press and media as well as in works of film and literature. Conducted in French.

11. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:
Robert R. Shankley
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or swilliams@cc.tamu.edu.
Curricular Services – 08/14

[Stamp: RECEIVED 08/03/2015]
FREN 475 The Francophone World will be renumbered FREN 375 The Francophone World in order to create structural alignments in the French curriculum, whereby 300-level courses will be conducted in French and 400-level courses will (generally) be conducted in English, with relative shifts in the amount of reading and other material assigned in the course and the pace at which it is covered.
FREN 375-500 The Francophone World
Texas A&M University • Spring 2017

Instructor: Dr. Nathan Bracher
Office: ACAD 329A
Hours: MWF 2:00-3:00 pm and by appointment
Phone: 845-2124 (INTS main office)
e-mail: nbracher@tamu.edu

Class meeting: MWF 9:10-10:00
ACAD 226

Course Description:
The peoples, cultures, and societies of French-speaking communities outside of France, with
special attention to their colonial origins and current issues of politics, identities, and migrations
as represented in the press and media as well as in works of film and literature. Conducted in
French.

Sharing in common their use of the French language, the Francophone community is spread
throughout some 80 different countries and numbers over 275 million people, the great majority
of whom are found outside of both France and Europe. Though often tied to France or Belgium
by a history of colonization and war, these French speaking peoples, societies, and cultures thus
live in highly diverse contexts with their own specific roots and traditions, facing challenges
specific to their own particular geographic location and economic conditions. Given the
numerical weight of the Francophone community and the multicultural reality of our
contemporary world, it is imperative that twenty-first century students not limit their knowledge
of things French to their European dimensions: a solid knowledge of the Francophone world is
indeed indispensable.

This course will introduce students to the often tragic past from which Francophone cultures
were born and to the multicultural reality of contemporary Francophone societies throughout the
world, with special attention to the Caribbean and to North and sub-Saharan Africa. Taking care
to situate various peoples and societies precisely in their own geo-political, linguistic, and
historical context, we shall be able to appreciate salient qualities of their vibrant cultures through
a close study of literary and cinematic works widely recognized for their various perspectives on
issues of identity, justice, exile, tradition vs. modernity, and rural vs. urban lifestyles.

Prerequisites:
FREN 202 or equivalent.

Learning Outcomes:
Upon completion of the course, students will be able to:
• identify the major social, geographic, and demographic components of the Francophone
  world;
• describe experiences, including exile, colonization, and enslavement often crucial in the
  formation of Francophone cultures and identities
• explain the challenges often shared in the context of a globalized world in which English
  is often dominant;
• appraise the rich and varied cultural productions from Francophone countries
• articulate an in-depth knowledge of one major Francophone and that person’s ongoing impact on contemporary politics, society, and culture.

**Required Texts:**
Maryse Condé, *Moi, Tituba sorcière.* [Black Witch of Salem]

Unless otherwise noted, all additional readings will be available as electronic files on eCampus.

All films will be available for students registered in the class at mediamatrix.tamu.edu.

**Assignments:**
Though there will be occasional lectures, the great majority of class sessions will be interactive, with the instructor leading students to explore and discover salient features of the books, films, and articles to be studied.

There will be a series of five formally structured “directed discussions” focusing sharply on a variety of issues raised by this material (see dates on schedule of assignments). The instructor will assign interrelated sets of questions to specific groups of students, who will prepare their answers in advance and present them orally in class. In the case of university-approved excused absence, students can submit their “directed discussion” in written form. No points will be given for unexcused absence.

The midterm and final exams will be based on course readings, lectures, and discussion, and will be a combination of short answer and essay questions. Exams cannot be made up except in the case of a university-approved excused absence.

Each student will conduct a research project on one major figure of the Francophone world, to be chosen in consultation with the instructor. The project will give a salient profile of one figure not studied in class and assess that person’s impact on society and culture both past and present. All students will give a 8-10 minute oral presentation providing a synopsis of their research and its findings. To ensure that these projects are undertaken in a timely and methodical manner, a topic proposal narrative will be due in week 3, an annotated bibliography in Week 7, followed by a detailed outline of the final report, due in Week 10.

**Oral Presentation Guidelines & Grading:**
The oral presentation will be from 15 to 20 minutes in length and will convey the salient results of your research project. It will be graded according to the following criteria and percentages:
20% = *Delivery.* – You should look directly at your audience. You may use notes, but do not read directly from your written text. Speak distinctly, taking care to use natural intonation.
20% = Clarity of main themes – Your audience should be able to clearly discern your main ideas. The most important findings of your research must therefore be articulated in a clear, precise, succinct manner.

25% = Intellectual content – You should explain what motivated you to take up your particular topic and indicate how it is related to material that we have studied together in class. You should then explain how your findings shed new light on the subject or challenge conventional wisdom.

25% = Precision and cogency of analysis – Rather than simply advancing general descriptions or platitudes, you should support your theses with evidence illustrated by concrete examples. Examples should be striking, allowing your audience to grasp main points from a case in point.

10% = Quality of your one-page handout – You should supply each member of the class with a one-page printed (not handwritten) synopsis of your findings. This sheet must be error free and neatly organized, clearly indicating the title of your research project along with your name at the top, and supplying your main sources of information.

**Overall Grading Policy:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed Discussions (5 total, each worth 6%)</td>
<td>30%</td>
</tr>
<tr>
<td>In-class oral presentation of research project</td>
<td>15%</td>
</tr>
<tr>
<td>Proposal narrative for research project</td>
<td>5%</td>
</tr>
<tr>
<td>Annotated bibliography for research project</td>
<td>5%</td>
</tr>
<tr>
<td>Detailed outline of research project</td>
<td>5%</td>
</tr>
<tr>
<td>Mid-Term Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

(A = 90% - 100%, B = 80% - 89%, C = 70% - 79%, D = 60% - 69%, F = 59% and below)

**Attendance:**

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. Students are expected to attend class and to complete all assignments; students are responsible for providing satisfactory evidence to the instructor to substantiate the reason for absence. University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

**Americans with Disabilities Act (ADA) Policy Statement:**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protections for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a
disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B-118, or call 845-1637. For additional information visit http://disability.tamu.edu.

**Academic Integrity:**

***

**Schedule of Assignments**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td></td>
<td>Documents from the website of the Organisation Internationale de la Francophonie</td>
</tr>
<tr>
<td></td>
<td>“The 80 States and Governments of the Francophone World”</td>
</tr>
<tr>
<td></td>
<td>“Statistical Data on the Use of the French Language”</td>
</tr>
<tr>
<td></td>
<td>“Counting the number of French-speaking People in the World”</td>
</tr>
<tr>
<td></td>
<td>“Map of French speakers in the World”</td>
</tr>
<tr>
<td></td>
<td>“What is ‘la Francophonie’?”</td>
</tr>
<tr>
<td></td>
<td>La francophonie (pp. 3 – 11)</td>
</tr>
<tr>
<td></td>
<td>Personal Testimonies of prominent artists, writers, athletes, and public figures in answer to the question: “How do you experience French and the French-speaking world?” (audio recordings)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 2:</th>
<th>Overview of the Francophone World B: Cultures, Projects, Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>La francophonie (pp. 16-21)</td>
</tr>
<tr>
<td></td>
<td>Recent press articles on recent developments and current issues</td>
</tr>
<tr>
<td></td>
<td>“Défense et illustration de la langue française”</td>
</tr>
<tr>
<td></td>
<td>“Vers une charte économique de la Francophonie”</td>
</tr>
<tr>
<td></td>
<td>“La Canadienne Michâelle Jean, première femme . . .”</td>
</tr>
<tr>
<td></td>
<td>“Qui est Michâelle Jean?”</td>
</tr>
<tr>
<td></td>
<td>“La Francophonie croît surtout en Afrique”</td>
</tr>
<tr>
<td></td>
<td>“Le bilinguisme est l’avenir du français”</td>
</tr>
<tr>
<td></td>
<td>“Le français bientôt deuxième langue du monde”</td>
</tr>
<tr>
<td></td>
<td>“Rencontre avec Philippe Suinen, adm. gnl. de Wallonie-Bruxelles”</td>
</tr>
</tbody>
</table>

*Directed Discussion 1*

<table>
<thead>
<tr>
<th>Week 3:</th>
<th>North Africa (A): Algerian Women facing the heritage of patriarchy and colonialism</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Assia Djebar, Femmes d’Alger dans leur appartement</td>
</tr>
</tbody>
</table>

*Research Project Proposal Narrative due*
| Week 4 | North Africa (B): Algeria Between tradition, modernity, and extremism  
Yamina Bachir, *Rachida* (film)  
Nadir Moknèche, *Viva L’Algérie* (film) |
<table>
<thead>
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<th></th>
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<tbody>
<tr>
<td></td>
<td><em>Directed Discussion 2</em></td>
</tr>
</tbody>
</table>
| Week 5 | North Africa (C): Press Dossier on Language, Culture and Economic development in Algeria and Morocco  
*Press articles*  
“En Algérie, une usine Renault inaugurée en grande pompe”  
“Pourquoi la France a besoin de l’Algérie”  
“Le Maroc pays francophone? Un leurre!”  
Jacques Attali, “Pour le Maroc, la francophonie est un atout majeur dans ses échanges avec l’Europe et l’Afrique” |
|        | *Directed Discussion 3*                                          |
| Week 6 | Sub-saharan Africa, a Senegalese woman’s perspective  
Mariama Bâ, *Une si longue lettre* [*So Long a Letter*], part 1 |
|        | *Annotated Bibliography due*                                     |
| Week 7 | Sub-saharan Africa, a Senegalese woman’s perspective  
Mariama Bâ, *Une si longue lettre* [*So Long a Letter*], part 2 |
|        | *Directed Discussion 4*                                          |
| Week 8 | *Midterm Exam*                                                   |
|        | Migration from Sub-saharan African: Dreams and Dangers of Migration  
Moussa Touré, *La pirogue* (film) |
| Week 9 | *Directed Discussion 4*                                          |
|        | Voices from the Antilles: the legacy of slavery and the clash of cultures (A)  
Aimé Césaire, *Cahier d’un retour au pays natal*  
Maryse Condé, *Moi, Tituba sorcière* [*Tituba, Black Witch of Salem*], part 1 |
| Week 10| The Caribbean: the legacy of slavery and the clash of cultures (B)  
Maryse Condé, *Moi, Tituba sorcière* [*Tituba, Black Witch of Salem*], part 2 |
|        | *Detailed Outline of Oral Presentation due*                       |
| Week 11| Quebec: gender and class in the experience of French immigrants:  
Anne Hébert, “Au pays de Catherine” & “Le premier mariage de Mme Rolland”  
Félix Leclerc, “Le hamac dans les voiles” |
| Week 12| Quebec: indigenous peoples and the struggle for cultural survival  
Robert Boucher, “Le départ”  
Marcelline Boivin-Cooco, “Que sont devenus les enfants arrachés à leur famille?”  
Jacinthe Connolly, “Otatakon pisimu: mois de l’envolée”  
Armand Mckenzie, “Le loup qui adorait manger du neuaixan” |
|        | *Directed Discussion 5*                                          |
| Week 13: | Quebec: Immigration and Education in Present-day Urban Society  
          | *Monsieur Lazhar* (film) |
| Week 14: | *Student Presentations of Individual Projects* |
| Final Exam according to official university schedule |
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Nutrition and Food Science
3. Course prefix, number and complete title of course: FSTC 315: Food Process Engineering Technology

Attach a brief supporting statement for changes made to items 4 through 10 below.

4. Change requested
   a. Prerequisite(s): From: FSTC 201, PHYS 201; junior or senior classification or approval of instructor
      To: PHYS 201, DS or U4 classification or approval of instructor, or PHYS 218
   b. Withdrawal (reason):
   c. Cross-list with: AGSM 315 [Cross-listed courses require the signature of both department heads.]
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: [ ]
   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education).
8. Complete current course title and current catalog course description:

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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Approval recommended by:
Boon Chew [Signature] 9/21/15
Robert Knight [Signature] 9/15/15
Kim Dooley [Signature] 10/9/15

Department Head or Program Chair (Type Name & Sign) Date
Stephen W. Searcy [Signature] 9/15/15
Chair, College Review Committee Date

Associate Director, Curricular Services

Submitted to Coordinating Board by:
Chair, GC or UCC Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Per Dr. Elena Castell, one of the AGSM/FSTC 315 instructors, FSTC 201 is not required for students to enroll in AGSM 315. This course is not required in the AGSM curriculum and because of this unnecessary prerequisite, each student enrolling (every semester) requires a manual prerequisite override by the departmental academic advisor. The course background students need to have in order to be successful in this course comes from either PHYS 201 or PHYS 218. This course is offered and taught, as a cross listed course with FSTC, by faculty members in the Biological and Agricultural Engineering Department. If you have any questions or concerns, you may contact me at ecastell@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Biochemistry and Biophysics
3. Course prefix, number and complete title of course: GENE 105 - Perspectives in Genetics: Past, Present and Future

4. Change requested
   o Prerequisite(s): From: Freshman or sophomore classification or approval of instructor
   o To: BICH or GENE major or approval of instructor
   o Cross-list with: BICH 101

   Cross-listed courses require the signature of both department heads.
   o Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   o Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☑ S/U ☑ P/F (CLAS)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
Perspectives in Genetics: Past, Present and Future - Impact of genetics on science and society; historical and continuing development of genetics and its contributions to agricultural, biological, medical, physical and social sciences.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
Perspectives in Biochemistry and Genetics - Introduction to Biochemistry and Genetics and their relationship to the biological, biophysical and chemical sciences.

11. a. As currently in course inventory:

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<thead>
<tr>
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<tr>
<td>GENE</td>
<td>105</td>
<td>Genetic Perspectives</td>
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<th>FICE Code</th>
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<tr>
<td>GENE</td>
<td>101</td>
<td>Perspectives in BICH and GENE</td>
</tr>
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<table>
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<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>03632</td>
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Approval recommended by:
David Peterson

Department Head or Program Chair (Type Name & Sign) Date: 9/24/15

Chair, College Review Committee Date: 10/3/15

Dean of College Date: 10/19/15

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8204 or sandra.williams@tamu.edu.
Course title and number: BICH/GENE 101 Perspectives in Biochemistry and Genetics
Term: Fall 20XX
Meeting time and location: Monday, 4:10-5:00 Biochemistry Building Room 107

Course Description and Prerequisites
Introduction to Biochemistry and Genetics and their relationship to the biological, biophysical and chemical sciences. Prerequisite: BICH or GENE major

Learning Outcomes
Upon completion of this course, students will be expected to:
1. Demonstrate a basic understanding of concepts that will be studied in more detail in advanced courses in Biochemistry and Genetics.
2. Explain to others how Biochemistry and Genetics are important to society.
3. Demonstrate a basic understanding of academic research, and appreciate the value of the opportunity to perform undergraduate research in a basic science laboratory.
4. Demonstrate effective use of library and other campus resources available to students.

Instructor Information
Name: David Peterson
Telephone number: 979-845-0953
Email address: dopeterson@tamu.edu
Office hours: Wednesday, 3:00-4:00 or by appointment
Office location: Biochemistry Building NMR Wing, Room N213A

Textbook and/or Resource Material
For the most part, there is no textbook for this course. You will be directed to various resource materials that are available through the Texas A&M University library.

You will need access to The Double Helix: A Personal Account of the Discovery of the Structure of DNA by James D. Watson. Two copies are on reserve at the Medical Science Library. Inexpensive used copies are available at amazon.com or other on-line booksellers.

Attendance
Attendance is very important in this class, and a sign-in sheet will be circulated at every class meeting. Each unexcused absence will lower your final grade by 2 points (one percent). No exceptions will be made. It is your responsibility to make sure you sign in. Excused absences are defined in TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07).
**Grading Policies**

Grades will be determined based on the following assignments. Details, including due dates and specific instructions for submission, will be available at the course website (ecampus.tamu.edu).

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
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<tbody>
<tr>
<td>Quizzes/assignments based on readings</td>
<td>80 pts (10 pts each)</td>
</tr>
<tr>
<td>Attend Genetics and Biochemistry Enrichment Experience (GaBEE)</td>
<td>20 pts</td>
</tr>
<tr>
<td>Write a Mission Statement (due Sep xx)</td>
<td>10 pts</td>
</tr>
<tr>
<td>Write an Inherited Disease Summary (due Oct xx)</td>
<td>30 pts</td>
</tr>
<tr>
<td>Group Project (20 for draft/practice (due Oct xx) + 40 for final presentation (due Nov xx))</td>
<td>60 pts</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>200 pts</td>
</tr>
</tbody>
</table>

All work must be submitted on time unless you have an excused reason as defined in TAMU Student Rule 7 (http://student-rules.tamu.edu/rule07). Late work will not be accepted or graded without an approved excuse for late submission. Make-up quizzes will be offered to students who miss a quiz due to an excused absence.

* You must attend at least 4 of the 5 GaBEE meetings (5:30 PM on Sep xx, Sep xx, Oct xx, Oct xx, and Nov xx). An alternative assignment will be available for students who have a documented class conflict. (NOTE: An excused absence is not the same as attendance. For example, attending only 3 GaBEE meetings with one excused and one unexcused absence will not be viewed as completing the GaBEE assignment. If you have two or more excused absences, you should request to complete the alternative GaBEE assignment.)

Course grades will be assigned based on the number of points earned during the semester:
A = 180 pts or more; B = 160-179 pts; C = 140-159 pts; D = 120-139 pts; F = 119 pts or less

**Class Schedule**

1 Aug xx Introduction; University Services
2 Sep xx Discussion 1: The Double Helix (chapters 1-16) (Quiz/Assignment 1)
3 xx Discussion 2: The Double Helix (chapters 17-29 and epilogue) (Quiz/Assignment 2)
4 xx Discussion 3: Genetically Modified Organisms (Quiz/Assignment 3)
5 xx Discussion 4: Gene Therapy and Personalized Medicine (Quiz/Assignment 4)
6 Oct xx Discussion 5: Cancer (Quiz/Assignment 5)
7 xx Discussion 6: The Biochemistry of Aging (Quiz/Assignment 6)
8 xx Discussion 7: Dimentia/Alzheimer's Disease (Quiz/Assignment 7)
9 xx Faculty Guest Lecture - Dr. Ryland Young (Bacteriophage)
10 Nov xx Group Presentation Practice (Groups 1-4)
11 xx Group Presentation Practice (Groups 5-8)
12 xx Discussion 8: The Microbiome (Quiz/Assignment 8)
13 xx Group presentations (Groups 1-4)
14 xx Group presentations (Groups 5-8)

**Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

**Academic Integrity**

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: http://aggiehonor.tamu.edu
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of History
3. Course prefix, number and complete title of course: HIST 234 European Military History, 1630-1900
4. Change requested
   a. Prerequisite(s): From: ____________________________ To: ____________________________
   b. Withdrawal (reason): ____________________________
   c. Cross-list with: ____________________________

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   European Military History, 1630-1900: European military history from Gustavus Adolphus to the Boer War including especially societal involvement as well as roles of classic commanders.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   European Military History: European military history including societal involvement, democratization of war, technology, strategy, military thought, and campaigns.

10. As currently in course inventory:
   a. Prefix Course # Title (excluding punctuation)
      HIST 234 EUR MIL HIST 1630-1900
      Lect. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code Level
      3.00 0.00 3.00 5401010001 4236 0 0 3 6 3 2
   b. Change to:
      Prefix Course # Title (excluding punctuation)
      HIST 234 Eur Mil Hist EUR MILITARY HISTORY
      Lect. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code Level
      3.00 0.00 3.00 5401010001 4236 16 17 0 0 3 6 3 2

Approval recommended by:
David J. Vaught, Head, 9/30/15

Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Chair, College Review Committee

Chair, GC or UCC Effective Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title/Description for HIST 234

Date: September 30, 2015

We propose changing the current course title for HIST 234 "European Military History, 1630-1900," to "European Military History." Likewise we propose changing the current description, "European military history from Gustavus Adolphus to the Boer War including especially societal involvement as well as roles of classic commanders," to "European military history including societal involvement, democratization of war, technology, strategy, military thought, and campaigns." The proposed title and description changes reflect shifts in scholarship over the past 20 years and more clearly communicate the course’s chronological breadth and current discussions of the political and global aspects of war.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:  
   - Undergraduate □  
   - Graduate □  
   - First Professional (DDS, MD, JD, PharmD, DVM) □
2. Request submitted by (Department or Program Name):  
   - Department of History
3. Course prefix, number and complete title of course:  
   - HIST 350 Asia During World War II

4. Change requested
   a. Prerequisite(s):  
      - From:  
      - To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  
      - ASIA 350
6. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   d. Change in course title and description:  
      - Asia During World War II: the origins and development of Japanese Imperialism; Japan's expansion into East and Southeast Asia; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war; remembrance of the war.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  
   □ Yes □ No
7. If grade type is changing for existing course, indicate the new grade type:  
   □ Grade  
   □ S/U  
   □ P/F (CLAS)  

8. If this course will be stacked, please indicate the course number of the stacked course:

   - I certify that I have reviewed the FAQ for Expert Controls Before for Distance Education (https://eptl.tamu.edu/resources/export-control/)

9. Complete current course title and current catalog course description:
   - Asia During World War II: the origins and development of Japanese Imperialism; Japan's expansion into East and Southeast Asia; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war; remembrance of the war.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   - WWII Asia Pac (W) TMH in Asia & Pacific; wartime societies; collaboration and resistance; effects of the war in the United States on Japanese-Americans; outcomes of the war; remembrance of the war.

11. a. As currently in course inventory:
    
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Approval recommended by:  
David J. Vaught, History, 9/8/15

Department Head or Program Chair (Type Name & Sign)  
Date  
Robert Shanding, INTS, 9/8/15  

Department Head or Program Chair (Type Name & Sign)  
Date  
(If cross-listed course)

Submitted to Coordinating Board by:  
Date  
Associate Director, Curricular Services  
Effective Date  
Chair, GC or UCC  
Date  
Curricular Services – 8/14

Questions regarding this form should be directed to Sandra Williams at 945-8201 or sandra.williams@tamu.edu.
Memorandum

To: Undergraduate Instructional Committee
From: [Signature]
Robert Shandley, Head, Department of International Studies

Re: RATIONALE for Change in Course Title/Description for ASIA/HIST 350

Date: September 30, 2015

We propose changing the current course title for HIST/ASIA 350 from "Asia during World War II" to "World War II in Asia and the Pacific." Likewise we propose changing the current description from "The origins and development of Japanese Imperialism; Japan's expansion into East and Southeast Asia; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war; remembrance of the war," to "the origins and development of Japanese imperialism; Japan's expansion into East and Southeast Asia and the Pacific; wartime societies; collaboration and resistance; effects of the war in the United States upon Japanese-Americans; the outcomes of the war." The proposed title and description changes reflect shifts in scholarship which explicitly address the role of the Pacific and Pacific Islanders in World War II.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   - [ ] Undergraduate  [ ] Graduate  [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): HIST
3. Course prefix, number and complete title of course: HIST 353 Modern South Asia

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: ___________________ To: ___________________
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   - [ ] Yes  [ ] No

6. If grade type is changing for existing course, indicate the new grade type:
   - [ ] Grade  [ ] S/U  [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   - [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description: Modern South Asia: Survey of the modern nation states of South Asia, including India, Pakistan, Bangladesh, Afghanistan, Nepal, Ceylon, Bhutan, and Burma, ca., 1600 to the present; major political events; economic, social, and cultural developments.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Modern South Asia: Evolution of cultures, politics, and societies in Indian sub-continent from c. 1300 to present; rise and demise of empires (especially Mughal, and British); anti-colonialism and emergence of nation states; social and cultural struggles and debates. Prerequisite-Jr or Sr—classification.

10. As currently in course inventory:

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b. Change to:

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</table>

Approval recommended by:

David J. Vaughn, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) (if cross-listed course)
Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 843-8201 or sandra.williams@tamu.edu.

Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Description for HIST 353

Date: September 30, 2015

We propose changing the current course description for HIST 353 "Modern South Asia" from "survey of the modern nation states of South Asia, including India, Pakistan, Bangladesh, Afghanistan, Nepal, Ceylon, Bhutan, and Burma, ca., 1600 to the present; major political events; economic, social, and cultural developments. Prerequisite: Junior or senior classification," to "Evolution of cultures, polities, and societies in Indian subcontinent from c. 1500 to present. Rise and demise of empires (especially Mughal, and British); anti-colonialism and emergence of nation states; social and cultural struggles and debates. Prerequisite: Junior or senior classification." The proposed description change reflects shifts in scholarship over the past 20 years that explicitly address historical changes on the Indian sub-continent prior to European colonialism and the contributions of multiple polities during the colonial period, the decolonization movement, and the national epoch.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

Form Instructions
1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  
   - History
3. Course prefix, number and complete title of course:  
   - HIST 365 History of Religion in America to 1860

   Attach a brief supporting statement for changes made to items 4a through 10 below.

4. Change requested
   a. Prerequisite(s):  
      - From:  
      - To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  
      - RELS 365

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   - Yes  
   - No

6. If grade type is changing for existing course, indicate the new grade type:
   - Grade  
   - S/U  
   - PF (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   - Yes  
   - No

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (https://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:  
   - History of Religion in America to 1860: Religion in America from European origins through New England Puritanism, U.S. Constitutional issues, immigration, revivalism and the Civil War; relationship between dissenters, utopians and visionaries versus mainstream counterparts. Crosslisted with RELS 365. Prerequisite: Junior or senior classification.

9. Complete current course title and current catalog course description:  
   - History of Religion in America to 1860: Religion in America from European origins through New England Puritanism, U.S. Constitutional issues, immigration, revivalism and the Civil War; relationship between dissenters, utopians and visionaries versus mainstream counterparts. Crosslisted with RELS 365. Prerequisite: Junior or senior classification.

10. Complete proposed course title and proposed catalog course description (not to exceed 300 words):  

11. a. As currently in course inventory:

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   b. Change to:

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   Approval recommended by:
   - David J. Vaughn, Head, History, 9/30/15
   - DonnaLee Dow, Director, RELS, 9/30/15

   Date:  
   Chair, College Review Committee:  
   Dean of College:  

   Submitted to Coordinating Board by:
   - Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845.8201 or sandra.williams@tamu.edu

   Curricular Services - 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History
Donnalee Dox, Director, Religious Studies

Re: RATIONALE for Change in Course Description for HIST/RELS 365

Date: September 30, 2015

We propose changing the current course description for HIST/RELS 365 “History of Religion in America to 1860,” from “Religion in America from European origins through New England Puritanism, U. S. Constitutional issues, immigration, revivalism and the Civil War; relationship between dissenters, utopians and visionaries versus mainstream counterparts,” to “Religion in North America from colonial beginnings to eve of Civil War. Relations between European Christianity, Native Americans, and African Americans; religious pluralism, reform movements, social and political change. Crosslisted with RELS 365. Prerequisite: Junior or senior classification. “ The proposed description change reflects shifts in scholarship over the past 20 years that explicitly address the multiple groups and varied strands of religiosity and spirituality that informed the creation and transformation of religious expression in North America during the colonial, early national, and national periods.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments.

Form Instructions

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): History

3. Course prefix, number and complete title of course: HIST 416 Texas Since 1845

4. Change requested

a. Prerequisite(s): From: none To: junior or senior classification or consent of instructor

b. Withdrawal (reason): 

5. Cross-listed courses require the signature of both department heads.

6. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

7. Is this an existing core curriculum course? ☑ Yes ☐ No

8. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)

9. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Texas as Border Region: History of Texas since annexation; slavery and its aftermath; border cultures and identities; race and ethnicity; modernization and its discontents.

11. Prerequisite: Junior or senior classification.

As currently in course inventory:

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Change to:

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Approval recommended by:

David J. Vaught, Head, History, 9/30/15
Department Chair or Program Chair (Type Name & Sign) Date

Dean of College Date
Chair, GC or UCC Date
Effective Date Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title & Description for HIST 416

Date: September 30, 2015

We propose changing the current course title for HIST 416 “Texas Since 1845,” to “Texas as Border Region.” Likewise, we propose changing the current course description, “History of Texas since annexation; social, cultural, economic and political developments and the place of Texas in national affairs “ to “History of Texas since annexation; slavery and its aftermath; border cultures and identities; race and ethnicity; modernization and its discontents. Prerequisite: Junior or senior classification.” The proposed course title and description changes reflect scholarly discussions over the past 20 years that emphasize the multi-cultural, multi-racial, trans-national character of Texas’ inhabitants and the state’s historical links to the broader southwest borderlands. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✦ Graduate ✦ Professional
- Submit original form and attachments -

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 438 Nineteenth Century England

Attach a brief supporting statement for changes made to items 4a thru 4c, and 10 below.

4. Change requested:
a. Prerequisite(s): From: none To: Junior or Senior Classification or consent of instructor
b. Withdrawal (reason):
c. Cross-list with: Cross-listed courses require the signature of both department heads.
d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description: Nineteenth Century England: political, social, economic, and intellectual history of England from 1815 to 1914

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Nineteenth Century Britain: Political, social, economic, cultural, intellectual, and military history of Great Britain from 1815 to 1914. Prerequisite: Junior or senior classification or consent of instructor:

10. As currently in course inventory:

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b. Change to:

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Approval recommended by:

David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee
From: David J. Vaught, Head, Department of History
Re: RATIONALE for Change in Course Title & Description for HIST 438
Date: September 30, 2015

We propose changing the current course title for HIST 438 from “Nineteenth Century England,” to “Nineteenth Century Britain.” Likewise, we propose changing the current course description from “political, social, economic and intellectual history of England from 1815 to 1914” to “Political, social, economic, cultural, intellectual, and military history of Great Britain from 1815 to 1914. Prerequisite: Junior or senior classification or consent of instructor.” The proposed course title and description changes reflect scholarly discussions over the past decade that emphasis the multi-cultural, multi-racial, trans-national character and culture of the British Isles rather than just England. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ▪ Graduate ▪ Professional
Submit original form and attachments.

Form Instructions
1. Course request type: ☒ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 439 Twentieth Century England

Attach a brief supporting statement for changes made to items 4a thru 4c, and 10 below.

4. Change requested
a. Prerequisite(s): From: none To: Junior or Senior Classification or consent of instructor
b. Withdrawal (reason):
c. Cross-list with:
   Cross-listed courses require the signature of both department heads.
d. Change in course title and description. Enter complete current course title and current course description in item 9, enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes □ No

6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade □ S/U □ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).


10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Twentieth Century Britain: Constitutional, political, economic, military, social, and cultural history of Great Britain since 1900. Prerequisite: Junior or Senior classification or consent of instructor.

11. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:
David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date
Department Head or Program Chair (Type Name & Sign) (If cross-listed course) Date

Chair, College Review Committee Date
Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title/Description for HIST 439

Date: October 2, 2015

We propose changing the current course title for HIST 439 from “Twentieth Century England,” to “Twentieth Century Britain.” Likewise, we propose changing the current course description from “Constitutional, political, economic, military and social history of England since 1910,” to “Constitutional, political, economic, military, social, and cultural history of Great Britain since 1900. Prerequisite: Junior or Senior classification or consent of instructor.” The proposed course title and description changes reflect scholarly discussions over the past decade that emphasis the multi-cultural, multi-racial, trans-national character and culture of the British Isles rather than just England. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ✦ Graduate ✦ Professional
Submit original form and attachments

Form Instructions

1. Course request type:
   ☑ Undergraduate   ☐ Graduate   ☐ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): History

3. Course prefix, number and complete title of course: HIST 450 The Old South

Attach a brief supporting statement for changes made to items 4a thru 4e, and 10 below.

4. Change requested
   a. Prerequisite(s): From: none To: Junior or Senior Classification or consent of instructor
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   ☑ Yes   ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ PF (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

   ☑ I verify that I have reviewed the FAQ for Export Controls/Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export-control-basics Export-control-basics-distance-education).

9. Complete current course title and current catalog course description: The Old South: History of antebellum South; physical bases of Southern regionalism; Southern alignments on national issues; slavery-plantation economy and society of Old South; secession and formation of Confederacy

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Southern Identities and Cultures Through Reconstruction: Focus on parts of North America where slavery dominated the economy, politics, and demographics; experiences of native, African, and European-descended peoples in such regions from the colonial period to the end of slavery; debates about geographical and cultural roots of regional identities. Prerequisite: Junior or Senior classification or consent of the instructor.

11. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:

David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
(If cross-listed course)

Chair, College Review Committee
Date

Dean of College
Date

SUBMITTED TO CURRICULUM SERVICES

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8203. sandra.williams@tamu.edu
Curricular Services - 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title/Description for HIST 450

Date: October 2, 2015

We propose changing the current course title for HIST 450 from “The Old South,” to “Southern Identities and Cultures through Reconstruction.” Likewise, we propose changing the current course description from “History of antebellum South; physical bases of Southern regionalism; Southern alignments on national issues; slavery-plantation economy and society of Old South; secession and formation of Confederacy,” to “focus on those parts of North America where slavery dominated the economy, politics, and demographics of a region; influence of native, African, and European-descended peoples on racial and cultural institutions from the colonial period to the end of slavery; historical debates over geographical and cultural roots of regional identities. Prerequisite: Junior or Senior classification or consent of the instructor.” The proposed course title and description changes reflect scholarly discussions over the past two decades that emphasize the multi-cultural, multi-racial, trans-national character and culture of North American regions dominated by a slave-plantation economy prior to the Civil War. The course’s existing title, “the Old South,” obscures how scholarship now explicitly examines the historical construction of that phrase and also ongoing debates over the phrase’s explicit inclusion and exclusion of different groups of people, different geographic areas, and different economic structures. These discussions and debates form the basis for the course and should be reflected in the course title and description. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 451 The New South, 1876 to the present

4. Change requested
   a. Prerequisite(s): From: none To: instructor
   b. Withdrawal (reason): Cross-listed courses require the signature of both department heads.
   c. Cross-list with: Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   d. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description: The New South, 1876 to the present: Political, economic, social and intellectual developments in the South since Reconstruction.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Southern Identities and Cultures Since Reconstruction: focus on the aftermath of slavery and defeat in those parts of North America where slavery dominated the economy, politics, and demographies; transformations in race, culture and politics in such regions and emergence of new identities since Reconstruction; debates over the geographic and cultural roots of the “American South.” Prerequisite: Junior or Senior Classification.

10. As currently in course inventory:

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Approval recommended by:

David J. Vaught, Head, History, 9/30/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee

Dean of College

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title/Description for HIST 451

Date: October 2, 2015

We propose changing the current course title for HIST 451 from “The New South, 1876 to the present” to “Southern Identities and Cultures Since Reconstruction.” We also propose changing the current course description from “Political, economic, social and intellectual developments in the South since Reconstruction,” to “focus on the aftermath of slavery and defeat in those parts of North America where slavery dominated the economy, politics, and demographics; transformations in race, culture and politics in such regions and emergence of new identities since Reconstruction; debates over the geographic and cultural roots of the "American South". Prerequisite: Junior or Senior classification.”

The proposed course title and description changes reflect scholarly discussions over the past two decades that emphasize the multi-cultural and multi-racial character of the southern part of the United States after the Civil War. The course’s existing title, “the New South, 1876 to the present,” obscures a new generation of scholarship that considers the historical construction of that phrase and also the ongoing debates over how different groups have explicitly included and excluded other people and geographical regions in notions of “the American South.” These discussions and debates form the basis for the course and should be reflected in the course title and description. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments.

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 462 American Foreign Relations
   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.
4. Change requested
   a. Prerequisite(s): From: none  To: Junior or Senior Classification or consent of instructor
   b. Withdrawal (reason): 
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes  ☑ No
6. If grade type is changing for existing course, indicate the new grade type:  ☐ Grade  ☐ S/U  ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:  
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete proposed course title and proposed catalog course description (not to exceed 30 words): American Foreign Relations to 1913: History of U.S. foreign relations and policies to 1913. Prerequisite: Junior or senior classification or consent of instructor.

10. As currently in course inventory:

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Approval recommended by:
David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
(If cross-listed course)

Chair, College Review Committee Date
Dean of College Date

Chair, GC or UCC Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History

Re: RATIONALE for Change in Course Title/Description for HIST 462

Date: October 2, 2015

We propose changing the current course title for HIST 462 from “American Foreign Relations” to “American Foreign Relations to 1913.” We also propose changing the current course description from “History of U.S. foreign relations and policies to 1913,” to “History of U.S. foreign relations and policies to 1913. Prerequisite: Junior or Senior classification or consent of instructor.”

The proposed course title change provides clarity on the chronological breadth of the course by adding “1913” which is currently in the course description. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ☑ Graduate ☐ Professional ☐
- Submit original form and attachments -

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 463 American Foreign Relations

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: none To: Junior or Senior Classification or consent of instructor
   b. Withdrawal (reason): 
   c. Cross-list with: 

Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☑ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description: American Foreign Relations: History of U.S. foreign relations and policies since 1913

9. Complete proposed course title and proposed catalog course description (not to exceed 30 words): American Foreign Relations since 1913: History of U.S. foreign relations and policies since 1913. Prerequisite: Junior or senior classification or consent of instructor.

10. As currently in course inventory:

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Approval recommended by:
David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Chair, GC or UCC Date

Date Effective

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee
From: David J. Vaught, Head, Department of History
Re: RATIONALE for Change in Course Title/Description for HIST 463
Date: October 2, 2015

We propose changing the current course title for HIST 463 from “American Foreign Relations” to “American Foreign Relations since 1913.” We also propose changing the current course description from “History of U.S. foreign relations and policies since 1913,” to “History of U.S. foreign relations and policies since 1913. Prerequisite: Junior or Senior classification.”

The proposed course title change provides clarity on the chronological breadth of the course by adding “1913” which is currently in the course description. Because this is a 400-level course, and in keeping with standard practice for upper division courses, we also request that “junior or senior classification or consent of instructor” be added as a prerequisite.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and attachments.

Form Instructions
1. Course request type:  ☒ Undergraduate  ☐ Graduate  ☐ First Professional (OMV, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): History
3. Course prefix, number and complete title of course: HIST 477 Women in Modern European History

4. Change requested
   a. Prerequisite(s): From:  
   To:  
   Cross-list with:  WGST 477

5. Is this an existing core curriculum course?  ☐ Yes  ☒ No

6. If grade type is changing for existing course, indicate the new grade type:  ☐ Grade  ☐ SUJ  ☐ P/F (CLRD)

7. If this course will be stacked, please indicate the course number of the stacked course:  

8. Complete current course title and current catalog course description: Women in Modern European History: Women in Europe from the 18th century to the present: women's contributions to their societies, realities of their daily lives and their responses; perceptions of women; role of institutions in defining women's roles; significance for women of industrialization, revolution, warfare, scientific discoveries; interaction of class, race and gender.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Women and Gender in Modern European History: Women in Europe from the 18th century to the present: women's contributions to their societies, realities of their daily lives and their responses; perceptions of women; role of institutions in defining women's roles; significance for women of industrialization, revolution, warfare, scientific discoveries; interaction of class, race and gender.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Women and Gender in Modern European History: Women in Europe from the 18th century to the present: women's contributions to their societies, realities of their daily lives and their responses; perceptions of women; role of institutions in defining women's roles; significance for women of industrialization, revolution, warfare, scientific discoveries; interaction of class, race and gender.

11. a. As currently in course inventory:

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<tr>
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<th>Title (excluding punctuation)</th>
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<td>WOMEN IN MOD EUR HIST</td>
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<th>Title (excluding punctuation)</th>
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Approval recommended by:

David J. Vaughn, Head, History, 9/30/15

Marian Elie, Director, WGST, 10/1/2014

Date: 10-19-15

Date: 10-20-15

Submitted to Coordinating Board by:

Chair, GC or UCC  

Date:  

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee  
From: David J. Vaught, Head, Department of History  
       Marian Eide, Director, Women's and Gender Studies Program

Re: RATIONALE for Change in Course Title for HIST/WGST 477

Date: September 30, 2015

We propose changing the current course title for HIST/WGST 477 from “Women in Modern European History” to “Women and Gender in Modern European History.” The proposed title change reflects current scholarly interests in the historical construction of the gender category of “woman” in relation to that of “man” as well as the political, social, economic, and cultural dimensions of women’s historical experiences. The title change also more explicitly addresses the topics outlined in the course description.
Eide, Marian
To: Rebecca Schloss
Re: Proposed title change for HIST/WGST 477

Are you kidding! I’m thrilled to endorse. Thanks for doing all the labor.

M.

From: <Schloss>, Rebecca H <rhschloss@tamu.edu>
Date: Thursday, October 1, 2015 at 3:51 PM
To: Marian Eide <meide@tamu.edu>
Subject: Proposed title change for HIST/WGST 477

Dear Marian:

I hope this finds you well. I know this is the 10th hour before our October UIC meeting but the history department would like to propose a course title change to HIST/WGST 477 for the 2016-2017 catalog. Our rationale is as follows:

We propose changing the current course title for HIST/WGST 477 from “Women in Modern European History” to “Women and Gender in Modern European History.” The proposed title change reflects current scholarly interests in the historical construction of the gender category of “woman” in relation to that of “man” as well as the political, social, economic, and cultural dimensions of women’s historical experiences. The title change also more explicitly addresses the topics outlined in the course description.

Does WGST support this course title change for HIST/WGST 477? If so, I’m happy to send you a copy of the two course change forms (one for HIST 477 and one for WGST 477) as well as the ‘rationale memo’. If you could sign all three documents where appropriate and return them to me, I’ll make certain they get to Sherry Higginbotham by Monday morning (October 5th) so they can be considered at the October UIC meeting.

Thanks,

Rebecca

Rebecca Hartkopf Schloss
Associate Professor & Director of Undergraduate Studies
Department of History
Texas A & M University
MS 4236
College Station, TX 77843-4236
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DPS, MD, JD, PhamD, DVPA)
2. Request submitted by (Department or Program Name): Department of Landscape Architecture and Urban Planning
3. Course prefix, number and complete title of course: LAND 310 Landscape Architecture Theory

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below:

4. Change requested
   a. Prerequisite(s): From: ____________________________ To: ____________________________
   b. Withdrawal (reason): ____________________________
   c. Cross-list with: ____________________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete items 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☐ S/U ☐ P/F (CLAP)
7. If this course will be stacked, please indicate the course number of the stacked course: □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:

LAND 310 Landscape Architecture

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

LAND 301 Landscape Architecture Theory

10. As currently in course inventory:
    
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<th>Title (excluding punctuation)</th>
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<td>Lab</td>
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<td>1694</td>
</tr>
</tbody>
</table>

Approval recommended by:
Dr. Ming-Han Li  [Signature]  10/15/15

Chair, College Review Committee  [Signature]  10/16/15

Dean of College  [Signature]  10/16/15

Submitted to Coordinating Board by:
Chair, GC or UCC  [Signature]  10/16/15

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu. Curricular Services – 08/14
LAND 310: LANDSCAPE ARCHITECTURE THEORY
3 credit hours

Department of Landscape Architecture and Urban Planning
FALL 2015 (syllabus version 8.31.14)

Class Time: Monday, Wednesday, Friday 10:20 - 11:10 a.m.
Classroom: C 307 Langford Architecture Center
Instructor: Dr. Eric Bardenhagen, RLA, ASLA
Scoates 105, Tel 458-3414
bardenhagen@tamu.edu

OFFICE HOURS: Tuesday 10:30 am - 12:00 pm
Thursday 11:30 am - 12:30 pm
or by Appointment

PREREQUISITES: Junior classification or approval of instructor

"The (university) exists for the students...but the university cannot give you an education
—it can only help you acquire one for yourselves. The main effort must be made by the
students." (George Lynn Cross)

I. COURSE DESCRIPTION

This course covers the following:

Relevant theoretical discourse in landscape architecture, urban planning and urban
design; urban theory, social and cultural theory; critical and creative thinking; ecological
planning and design; design process and sustainable development; environmental
philosophy and environmental aesthetics. Prerequisite: Junior classification or approval of
instructor.

A theory is an explanation supported by evidence. It is a way of explaining the facts we have about a
set of circumstances. The purpose of theory is to provide predictability about similar conditions
elsewhere or in the future. Theory of landscape architecture is based on the premise that quality-of-
life for individuals and society benefits from the creation of harmonious and mutually supportive
relationships between people and the environment. The underlying premise of knowledge-based
design is that decisions informed by a broad understanding of people and the environment increase
the likelihood that the interventions we propose will lead to beneficial and sustainable change in the
landscape.

LAND 310 introduces landscape architecture theory through a combination of lectures, class
discussions, films, group interaction exercises, case studies and written reports based on
readings in the text, assigned books, and articles. Unlike the skill-building and process-
development courses (such as graphics studio, design studio, and construction methods
classes), this course is intended to frame the knowledge base for a holistic understanding
of landscape architecture as a discipline and inform design decision making as a
professional activity.
A Word About Readings:

Readings are assigned to satisfy two basic purposes: to assist you in acquiring knowledge; upon which evidence-driven design initiatives may be based, and to develop skill in using multiple sources (and voices) effectively tackle complex issues. The underlying goals of the course are to improve your abilities to learn and write. To quote Abigail Adams: “Learning is not attained by chance: it must be sought for with ardor and attended to with diligence.” Success in this course will correlate directly with your diligence in consistent, thoughtful reading and preparation, active class participation, and cogent discussion on assigned readings and research. Instruction will be based on the readings and discussions in class, and the required writing assignments. We read, according to Francis Bacon, one of the finest intellects of the 16th century, not just to learn what has been written, but to engage in the thinking process. This is good advice to the serious student of design. Both reading and expressing information and ideas through writing are critical to developing an understanding of landscape architecture theory. Above all, it is necessary to avoid one of our most common human tendencies, as described by Douglas Adams: “Human beings, who are almost unique in having the ability to learn from the experience of others, are also remarkable for their apparent disinclination to do so.”

II. LEARNING OUTCOMES

Terms useful to explain the learning objectives of this course include:

- **appreciate:** to be aware of, and able to correlate but not commit to memory.
- **learn:** to acquire information that changes one’s understanding and behavior.
- **know:** to have fixed in the memory and access to in one’s thinking.
- **understand:** to know and be able to relate A and B.
- **utilize:** to apply in a practical sense.
- **explore:** to think deeply about a problem; to enquire what, why, and how.

Upon completion of this course, each student with a passing grade will be able:

1. To appreciate the basic considerations of landscape architecture theory
2. To appreciate the relevance of the human and biophysical systems, design procedures and holistic approaches on which landscape architecture theory is based.
3. To understand the performance characteristics of landscape planning, design, and management responsive to substantive theory considerations
4. Develop a sound reference list, case study examples and analysis of a major theory presented in class.
5. To understand an evidence-based design process, the methods, and principles of informed decision making
6. To be able to utilize (identify, locate, and access) appropriate information and translate it into a form applicable to design research and decision-making
7. To be able to utilize clear, concise, and correctly framed writing to express complex ideas in a writing style appropriate to the requirements of advanced knowledge-based practice
8. To explore ideas relevant to contemporary life and design practice.

The course is designated as a writing intensive (W classification) course for landscape architecture majors. The course requires substantial, formal, graded scholarly writing. The relevant features of writing for which you will be responsible include:

1. appropriate use of grammar, punctuation, spelling, and diction,
2. appropriate style and format of writing for a professional audience,
3. systematic library research and documentation,
4. appropriate (limited) use of non peer-reviewed internet material,
5. critical thought,
6. effective organization of ideas, synthesized from multiple sources,
7. formation and presentation of arguments,
8. appropriate citation of information sources for a professional/academic audience, and
9. effective communication of complex ideas.

III. EXPECTATIONS

The basic expectation of this course is that the students enrolled are dedicated to mastering the material, have arranged their time to do so, and are prepared to put forth the effort required to meet this standard throughout the course of the semester. You are one-300th of one percent (.003%) of the world's population with the opportunity to attend a major American research university (De Gioia 2002). You are expected to engage this course in a manner that demonstrates recognition that with privilege comes responsibility.

Attendance: Attendance is required for all classes unless prior arrangements have been made with the instructor. Absences or late submissions due to health-related problems, emergency situations, or mandatory participation in University-sanctioned activities will be excused if written verification is supplied to the instructor within one week. More information can be found at http://student-rules.tamu.edu/rule07

Class Preparation: Students are expected to arrive at each class having prepared in advance by completing the assigned reading or other assigned materials as outlined in the course schedule. Students are expected to have read and understood the assignments — or noted any questions to be posed — prior to arriving at class. While formal note taking to be turned in is not required of this course, you are strongly encouraged to take consistent and concise notes. Discussions will be based on readings and quizzes will be drawn heavily from assigned readings.

Class Participation: During the lecture/discussions, note-taking will be largely devoted to recording the application implications of the points discussed since your 'notes' will have been prepared prior to coming to class. Class note taking will generally consist of documenting ways to apply the knowledge or insights discussed in class as they relate to design situations. All class members are expected to arrive in class prepared to discuss the readings assigned. Use of computers or other devices for non-class activities is not permitted during class time unless to take notes or for in-class exercises. You will be asked to leave class if you prefer those activities instead of class discussions.

Writing Requirements: For the writing portion of the course, you are to produce a short book review, a major long paper (5-8 pages) and several short group exercises. Paper assignments are listed in the course schedule and each will include an assignment guide.

Due Dates: To be considered for credit, all assigned work must be submitted on the date and time specified. All class assignments are to be completed independently and on schedule. Late work will be reduced by one letter grade per day late (class start time) unless there are exceptions as noted in “Attendance,” above.

Classroom Decorum: Students are expected to conduct themselves with appropriate learning behaviors. Active, informed discussion is expected from all students. Openness to new ideas and tolerance of diversity is a basic philosophical requirement for effective and compassionate professionalism. It is a fundamental requisite for the development of a flexible and informed mind.
IV. TEXTBOOKS

Required Texts:


A substantial listing of additional readings is included within the course schedule by date that each reading is assigned. All readings outside of the two texts listed above will be provided to students as a PDF.

V. CRITERIA FOR EVALUATING STUDENT PERFORMANCE

In addition to assigned readings and writing projects, students will participate in site walk activities on campus explore case studies related to readings, develop a multi-media landscape experience presentation and create a design program for a hypothetical project.

Grades for this class will be assigned as:
90 – 100 = A  Excellent
80 – 89 = B  Good
70 – 79 = C  Satisfactory
60 – 69 = D  Minimum pass
0 – 59 = F  Failure

Grade Determination: The final grade for the course will be determined as follows:
- Term research report (W) 20%
- Term book report and synthesis (Individual portion 60%, group 40%) (W) 15%
- Quizzes (3) 5% each 15%
- Landscape Experience video presentation (group) 10%
- Group in-class exercises throughout the semester-total (W) 15%
- Final Exam 15%
- Other writing assignments (two during the semester) (W) 5%
- Attendance 5%

Total 100%

Important Note: Failure to meet the writing requirements (W) precludes passing this course irrespective of the possibility of student's making a passing grade on a straight point calculation basis. Because LAND 310 is designated as a Writing Intensive Course in the University Catalog, a student cannot pass this course without doing a passable job on the writing component, no matter how the points are distributed.
VI. ACADEMIC INTEGRITY

"Aggies do not lie, cheat, or steal or tolerate those who do." Students are expected to uphold the highest level of honesty and integrity in all their interactions, and particularly so in the pursuit of knowledge. For the Aggie Code of Honor and explanations of academic integrity and its responsibilities, see http://www.tamu.edu/aggiehonor.

Students are cautioned about copying work that was not their own effort and any other act that constitutes plagiarism. Plagiarism is any act that reproduces another person’s ideas, words, writings, drawings, photographs, digital media etc., and represents it as being original work. You are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have permission of that person. Rules governing plagiarism can be found in the latest edition of the Texas A&M University Student Rules governing Scholastic Dishonesty.

VII. ADA POLICY:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B116 Cain Hall, tel: 845-1637. Evidence of time-extension requirements for examinations that have been sanctioned by the University is to be brought to the instructor’s attention during the first week of class. For additional information visit http://disability.tamu.edu

VIII. PRIVACY POLICY

Family Education Rights and Privacy Act (FERPA) is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admission and Records Office.

Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPA, or class schedule. All efforts will be made in the class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in class.
IX. Course Themes and Topics

1. FOCUSING: Considering the LANDSCAPE, DESIGN, and our RCLES in shaping human experiences with and on the land.
   - Critical Thinking
   - Creative Thinking
   - Origins of Theory
   - Values, Commodity and Design

2. EXPERIENCING: Exploring HUMAN / ENVIRONMENT Relationships
   - Human Factors and Behavioral Dimensions of Space
   - Place and Environment/Behavior Relationships
   - Cultural Considerations of Design
   - The Roles of Nature in the Health and Experiences of Humans
   - Creating Landscape Narratives
   - Access, Wayfinding and Movement through the landscape

3. INHABITING: Investigating the PROCESSES of the PHYSICAL LANDSCAPES we inhabit.
   - Ecosystems and Landscape Processes
   - Ecological Design
   - Ecosystem Services
   - Low Impact Design and Stormwater Management
   - Design with Climate and Solar Access
   - Analyzing Sites

4. PRACTICING: Applying what we know to the ways that we think in SYSTEMS, explain our APPROACHES, practice our CRAFT and organize our PROFESSIONS.
   - Thinking in Systems
   - The Strategy and Purpose of Design
   - Design Processes
   - Design Problem Definition and Programming
   - Design Teams, Collaboration and Practice

*The limits of your language are the limits of your world.* - Ludwig Wittgenstein
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<td>Discussion: Critical Thinking/Creative Thinking</td>
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<td>Course Intro, syllabus, guidelines</td>
<td>Readings Due: Murphy pp 213-225 (PDF)</td>
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<td>What is Theory?</td>
<td>(Before Class) Origins of Theory - J. Corner</td>
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<td>Readings Due:</td>
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<td>J.B. Jackson, Figure in a landscape</td>
<td>Writing the Book Review</td>
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<td>Discussion</td>
<td>Group Exercise: Exploring &quot;Why&quot; in a shared landscape</td>
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<tr>
<td>J.B. Jackson, Figure in a landscape</td>
<td>(values, commodity, landscape)</td>
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<td>Spaces - William Whyte</td>
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<td>Murphy, pp 115-134*</td>
<td>William Whyte Video</td>
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<td>Cooper Marcus</td>
<td>Vernacular Landscape &quot;Sketch&quot;</td>
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<td>* = last Murphy PDFs provided</td>
<td>(One Page - See Guide)</td>
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<td><strong>Wednesday</strong></td>
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<td>Video</td>
<td>Group Exercise: Campus William Whyte Walk</td>
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<tr>
<td>Biophilic Design</td>
<td>Meet on Langford Bridge</td>
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<td>(Media Matrix)</td>
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<td>Biophilic Design Video</td>
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<td>Assignment Due</td>
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<td>&amp; Jackson &amp; Whyte videos</td>
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<td>Lynch - The Image of the City</td>
<td>Landscape&quot; Video</td>
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<td>(Before Class)</td>
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<td>by Susan Rodier</td>
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<td>[suggestion - start reading this early in the semester]</td>
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<td><strong>Wednesday</strong></td>
<td>September 30</td>
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<td>Video</td>
<td>Readings Due: Roberto Rengel</td>
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<td>Older Adults Videos</td>
<td>(Before Class) Bardenhagen/Rodier</td>
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<td>(Media Matrix)</td>
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<td>Monday</td>
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<tr>
<td><strong>October 5</strong></td>
<td><strong>October 7</strong></td>
<td><strong>October 9</strong></td>
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<tr>
<td><strong>BOOK REVIEW - Feedback in class</strong></td>
<td><strong>BOOK REVIEW - Synthesis</strong></td>
<td><strong>BOOK REVIEW - Due</strong></td>
</tr>
</tbody>
</table>
| **Group Discussions:** Feedback to Review Partners on drafts need to be provided by Sunday 10/4 | **Group Discussions:** Groups discuss similarities, differences and overlap of selected books. Discuss intro and synthesis/conclusions. | **By 10:20 AM**
**Digital Copy Via E-Campus** (see assignment guide) |

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<tr>
<th>Monday</th>
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<tr>
<td><strong>October 12</strong></td>
<td><strong>October 14</strong></td>
<td><strong>October 16</strong></td>
</tr>
<tr>
<td><strong>Lecture Topic:</strong> Cultural Considerations in Design</td>
<td><strong>Lecture:</strong> TBD</td>
<td><strong>Group Exercise:</strong> Design for Quality of Life</td>
</tr>
</tbody>
</table>
| **Readings Due:** Toby Israel (Before Class) Matthew Potteiger Marc Treib Murphy pp. 166-170 | **Video:** Come Hell or High Water (Evening)
**The Battle for Turkey Creek**
**Actual location and Day/time TBD**
**QUIZ #3** Readings up to 10/12 & films | |
| **Assignment:** Due | **Assignment:** Due | |

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<tr>
<th>Monday</th>
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<tr>
<td><strong>October 19</strong></td>
<td><strong>October 21</strong></td>
<td><strong>October 23</strong></td>
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</table>
| **Lecture Topic:** COA Research Symposium 2015 Attendance Required | **Lecture Topic:** Research Paper Approaches Synthesizing Information | **Group Exercise:** Synthesizing Information In research papers
**Research Paper Assignment:** Make appointment for University Writing Center to review your draft Research Paper (see assignment guide) |
| **Assignment:** Reflective summaries on two or more presentations.
**See assignment guide in E-Campus** | **Assignment:** Due: Reflective summaries on two or more presentations. | |

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<tr>
<td><strong>October 26</strong></td>
<td><strong>October 28</strong></td>
<td><strong>October 30</strong></td>
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| **Lecture Topic:** Intro to the Biophysical Environment | **Lecture Topic:** Intro to the Biophysical Environment-Continued | **Lecture Topic:** Edible Landscapes and living local-Guest: Dr. Merrill
**Readings Due:** TBD | **Video:** Big River | **Readings Due:** TBD (Before Class) |
| **Readings Due:** Murphy pp 83-93 (Before Class) Marsh Chapter 3 | | |

<table>
<thead>
<tr>
<th>Monday</th>
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<tr>
<td><strong>November 2</strong></td>
<td><strong>November 4</strong></td>
<td><strong>November 6</strong></td>
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</table>
| **Lecture Topic:** Landscape Planning Ecological Design | **Video:** Ribbon Of Sand (Media Matrix)
**Focal Point - Line in the Sand View PRIOR to class**
**Discussion:** Coastal Issues | **Exercise:** Two Approaches to a barrier island system |
| **Readings Due:** Dramat & Forman Nlubisi Daily | | |

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<tr>
<th>Monday</th>
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<tr>
<td><strong>November 9</strong></td>
<td><strong>November 11</strong></td>
<td><strong>November 13</strong></td>
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<td><strong>Lecture Topic:</strong> Green Infrastructure &amp; Designing With Climate</td>
<td><strong>Lecture Topic:</strong> TBD</td>
<td><strong>Lecture Topic:</strong> Landscape Performance Analysis - Guest: Dr. Ming Han Li</td>
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<td><strong>Readings Due:</strong> TBD (Before Class)</td>
<td><strong>QUIZ #3</strong> Readings up to 11/11 &amp; videos</td>
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<tr>
<td>Monday</td>
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<tr>
<td><strong>November 16</strong></td>
<td><strong>November 18</strong></td>
<td><strong>November 20</strong></td>
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<tr>
<td>Readings Due: Murphy - Systems Theory (Manuscript PDF to be provided) Process Architecture - Peter Walker, William Johnson</td>
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<tr>
<td>Monday</td>
<td>Wednesday</td>
<td>Friday</td>
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<tr>
<td><strong>November 23</strong></td>
<td><strong>November 25</strong></td>
<td><strong>November 27</strong></td>
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<tr>
<td>Lecture: Design Problem Definition and Programming</td>
<td>FLEX DAY Class meeting TBD</td>
<td>Thanksgiving Holiday NO CLASS</td>
</tr>
<tr>
<td>Readings Due: Murphy - 53-62 Pefa pp. 92-95, and pp. 153-159</td>
<td>Final Research Papers Due 10:20 am (see assignment guide)</td>
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<tr>
<td>Monday</td>
<td>Wednesday</td>
<td>Friday</td>
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<tr>
<td><strong>November 30</strong></td>
<td><strong>December 2</strong></td>
<td><strong>December 4</strong></td>
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<tr>
<td>Lecture Topic: Design Teams and Collaboration</td>
<td>Group Exercise: Creating a Design Program</td>
<td>Lecture Topic: Place and Craft for the Landscape Architect</td>
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<tr>
<td>Readings Due: Murphy 189-211 (Before Class)</td>
<td>Assignment &quot;Experiencing the Landscape&quot; Video</td>
<td>Readings Due: TBD</td>
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<tr>
<td>Monday</td>
<td>Wednesday</td>
<td>Friday</td>
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<tr>
<td><strong>December 7</strong></td>
<td><strong>December 9</strong></td>
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<tr>
<td>Lecture Topic: Semester Review</td>
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<td><strong>FINAL EXAM (written)</strong></td>
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<td>Given during class</td>
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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions
1. Course request type: ✓ Undergraduate □ Graduate □ First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Landscape Architecture and Urban Planning
3. Course prefix, number and complete title of course: LAND 329 Landscape Construction I

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: To:
   b. Withdrawal (reason):
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes ✓ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CMGD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ✓ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
    
    Prefix   Course #   Title (excluding punctuation)  
    LAND 329 Landscape Construction I

    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
    2.00  4.00  0.00  4.00  0406010006  1694  [ ] 3 6 3 2

    b. Change to:
    
    Prefix   Course #   Title (excluding punctuation)  
    LAND 231 Landscape Construction I

    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
    2.00  4.00  0.00  4.00  0406010006  1694  16 - 17 0 0 3 6 3 2

Approval recommended by:
Dr. Ming-Han Li
Date: 1/9/15

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee
Date

Department Head or Program Chair (Type Name & Sign) (If cross-listed course) Date
Dean of College

Submitted to Coordinating Board by:
Associate Director, Curricular Services
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
LAND329
Landscape Construction I
Fall 2015, 3 credit hours

Class Time: TR 8:00 am to 10:30 am
Class Room: Langford C111 and BLA Studio

Instructors: Eric Bardenhagen, Ph.D., Assistant Professor
Office: 105 Scoates
Email: bardenhagen.tamu.edu
Phone: 845.3414

Office Hours: Tues 10:30 am ~ 12:00 pm
Wed 11:30 am ~ 12:30 pm
or by appointment

Michael A. Teal, MLA, RLA, Lecturer
Email: tealdesign@wicksonwireless.com
Phone: 979-575-2213
Office Hours: TBD

COURSE DESCRIPTION
LAND329 Landscape Construction I provides a technical background and practical exercises in the fundamental knowledge and skills of Landform Grading, Earthwork, Drainage, Hydrology and Surface Hydraulics, Stormwater Management, Street Layout and Basic Geometric Design.

LEARNING OUTCOMES and COURSE OBJECTIVES
The objectives of the course are:

1. To acquire an entry level knowledge and skill in the principles of land form manipulation and preparation of grading plans and to demonstrate their knowledge by achieving passing scores on examinations and practical exercises in preparation of grading plans;

2. To acquire an entry level knowledge and skill in the computation of earthwork volumes and to demonstrate their proficiency by achieving passing scores on written examinations and successful completion of practical earthwork computation exercises;

3. To acquire an entry level knowledge and skill in the use of computer spreadsheets applied to earthwork calculations by developing basic spreadsheets for earthwork projects;

4. To acquire basic knowledge in hydraulics, hydrology, drainage design and stormwater management and to demonstrate that knowledge by achieving passing grades on a written examination and successfully completing a studio exercise in urban stormwater management;

5. To acquire a general understanding of intermodal transportation planning and to acquire an entry level understanding of the geometric design of highways and streets and demonstrate that understanding by achieving a passing score on a written examination.
REFERENCE BOOKS

Required Textbook
*Site Engineering for Landscape Architects. 5th Ed. By Strom, S., K Nathan and J. Woland (2009). John Wiley and Sons, Inc. (6th Ed. 2013 is also acceptable.)*

Suggested Reference

COURSE LOGISTICS

This class emphasizes the importance of participatory, interactive and hands-on learning experiences. This class will involve a series of lectures, homework and exercise assignments, in-class assignments, quizzes, examinations and field trips. Lectures will be held in Langford Building C111 during the first hour to cover the subjects and activities of the day. Students are encouraged to ask questions or share information at any time during the lectures. The rest of class will be devoted to practice and application of knowledge from lectures and supplemented by in-class exercises or assignments. Digital course materials such as handouts, homework, in-class assignments and supplemental readings will be stored in eCampus (eCampus.tamu.edu). You must check on new releases regularly and download them for use. Exams are typically closed book, closed notes with no devices or computers allowed.

SUPPLY LIST

- An engineer’s scale (a 3-sided ruler marked in 1/10ths of an inch at 10, 20, 30, 40, 50, and 60 graduations to the inch)
- A scientific calculator
- Colored pens, pencils, and colored markers (several different line weights as well as diverse colors including a black and a gray)
- Trace paper roll
- Masking tape
- Laptop with computer software and hardware as per college & department standards.

EVALUATION AND EXPECTATIONS

Grading Policy
A = 90 or above, B = 80 to 89.9, C = 70 to 79.9, D = 60 to 69.9, F = below 60.

<table>
<thead>
<tr>
<th>Weighting</th>
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<tbody>
<tr>
<td>Homework</td>
<td>25%</td>
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<tr>
<td>Studio exercises</td>
<td>30%</td>
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<tr>
<td>In-class assignments</td>
<td>10%</td>
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<tr>
<td>Journal</td>
<td>5%</td>
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<tr>
<td>Quizzes</td>
<td>5%</td>
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<tr>
<td>Exams</td>
<td>25%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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</table>
Homework: Homework assignments shall be neatly finished. All calculations and units should be clearly written on separate sheets and stapled on the back of your submission. The due date for each homework will be indicated on the course work plan when it is assigned. Typically, the due date is one week after it is issued and the assignment will be collected at the beginning of the class. Submissions after instructors have started the class (e.g., the lecture) will be considered late. All late homework will be graded for half credit (50%), and no homework will be accepted after the graded assignments are returned, resulting in a grade of zero.

Studio exercises: Studio exercises typically are graphical vignettes that require knowledge of landscape design and technical competence to create reasonable, practical, cost-effective and safe solutions. Therefore, exercises shall be professionally drafted for clear communication. Exercises of poor drafting quality will be subjected to severe point deduction. Incomplete works that do not provide final solutions will not be accepted. Incomplete works will receive a grade of zero. The policy for late exercises follows what is described in Homework.

Observing the landscape exercise: A good way to learn landscape architecture is by observing and measuring. You will keep a journal for the semester to document your analysis on landscape spaces and objects. Detailed requirements are described in the exercise.

In-class assignments: Portions of the scheduled class meeting time will be used for in-class assignments. These assignments will be designed to illustrate concepts and problem solving techniques. In-class assignments may be worked individually or in groups and will be due at the end of the class when assigned. In-class assignments may not be made up, and work not turned in will receive a grade of zero.

Quizzes: Quizzes are a means to ensure that the students are reading and learning from assigned materials. Dependent upon the instructor’s evaluation of class participation, these will be given occasionally throughout the semester. All quizzes will be closed-book, closed-notes and should require approximately 10 minutes of class time.

Exams: Two exams and one final exam will be given. Exams will focus on application of technical concepts. Exams will be limited to one class period. The final exam is on Friday Dec. 11 from 12:30 pm to 2:30 pm.

Field Trip: We will have one or two in-town field trips during this semester. All students are required to participate. Upon request, the instructors will provide excuse letters for students who need to provide these their other professors or employers.

Extenuating circumstances: If, at any time, extenuating circumstances interfere with your ability to meet class requirements, students are encouraged to contact the instructors prior to passage of a due date, giving of a quiz or exam, etc. The ability to make up missed work and the terms of any allowed make-up will be determined on a case-by-case basis.

Submission Requirements
Submission requirements include the basis for determining whether or not a project is complete enough to evaluate. Construction documents are legal documents that govern construction and generally become part of a legal agreement between a client and a building contractor. They are intended to convey precise information and are free of graphic embellishment. In this course all
drawings turned in for evaluation must be copies of original work and meet professional technical standards for working drawings. Submittals of original work will be returned to students immediately without grading. All solutions must be drafted, and lettered, or plotted from an appropriate CAD package, with all appropriate dimensions, elevations, contours, notes and labels typical of construction documents. Students must sign on all sheets to indicate original work by the student. Every sheet must have an appropriate title block, north arrow (if appropriate), scale designation (graphic and written), date, name and project/course title. Any exercise or project that fails to meet standards of completeness or neatness will receive a grade of zero. No work will be accepted for credit after the last class day.

If submitted work is clearly incomplete, the work will be returned without being graded. The subsequent submission will be considered late (50% deduction). Again, no work will be accepted after the graded assignments are returned, resulting in a grade of zero.

ATTENDANCE POLICY
"The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07."

ACADEMIC INTEGRITY STATEMENT and POLICY
"An Aggie does not lie, cheat or steal, or tolerate those who do."

The Aggie Code of Honor states that the students at Texas A&M University should value honesty and person integrity. Therefore, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty.

Students are referred to the Honor Council Rules and Procedures that may be found at the website: http://aggiehonor.tamu.edu.

AMERICANS with DISABILITIES ACT (ADA) POLICY STATEMENT
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu/

SAFETY and FACILITY UPKEEP
Throughout the semester, you may engage in activities where you choose to handle tools, equipment, and/or materials that require care in their use. Maintain your desk and workspace so that no obstacles that could harm others (i.e., cutting tools) are left unattended. Keep your work environment clean. No food or drink is allowed in the studio. If you make use of the woodshop, complete the safety course found through the woodshop web page located at: http://www.arch.tamu.edu/content/inside/services/woodshop
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Activity</th>
<th>Homework</th>
<th>Exercise</th>
<th>Readings</th>
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<td>Issue</td>
<td>Due</td>
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<tr>
<td>1</td>
<td>1-Sep</td>
<td>Introduction to the course and review of syllabus</td>
<td>Lec01</td>
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<tr>
<td>3-Sep</td>
<td>Contours and forms</td>
<td>Lec02, in-class1</td>
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<td>8-Sep</td>
<td>Interpolation and slope</td>
<td>Lec03, Demo</td>
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<td>10-Sep</td>
<td>Slope formula application (spot elevation); and site grading process</td>
<td>Lec04, Lec05, Demo</td>
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<td>15-Sep</td>
<td>Grading around building's (residence) (show curb/gutter model)</td>
<td>Lec06, Demo Video</td>
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<td>17-Sep</td>
<td>Grading residence and roads (review videos 1 &amp; 2)</td>
<td>Quiz (Ch1, 3, 4, 5), Video 2, Demo</td>
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<td>4</td>
<td>22-Sep</td>
<td>Grading with accessibility (residence)</td>
<td>Lec06.1, Demo Video</td>
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<td>24-Sep</td>
<td>In-class2 and review</td>
<td>In-class2, quiz (Ch2, 6)</td>
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<td>26-Sep</td>
<td>Earthwork, cut and fill Q&amp;A on Exam 1</td>
<td>Lec07, in-class3</td>
<td>H01</td>
<td>Ex01</td>
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<td>6-Oct</td>
<td>Exam 1</td>
<td>H02</td>
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<td>Ex05</td>
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<td>6-Oct</td>
<td>Intro to stormwater management/campus diagnosis</td>
<td>Lec08</td>
<td>H03</td>
<td></td>
<td>Ex07</td>
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<td>7</td>
<td>13-Oct</td>
<td>Guest lecture &amp; return Exam 1</td>
<td>Demo Video 4</td>
<td>H04</td>
<td>Ex09</td>
<td>Ex08</td>
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<td>15-Oct</td>
<td>Stormwater management (H&amp;H)</td>
<td>Lec09, in-class4</td>
<td>H06</td>
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<td>Ex10</td>
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<td>20-Oct</td>
<td>Stormwater management (H&amp;H)</td>
<td>Lec10</td>
<td>H05</td>
<td>Ex11</td>
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<td>8</td>
<td>22-Oct</td>
<td>Rainfall runoff estimate (rational method)</td>
<td>Lec11, quiz</td>
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<td>Ex10</td>
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<td>9</td>
<td>27-Oct</td>
<td>Rainfall runoff estimate (modified rational method)</td>
<td>Lec12, in-class5</td>
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<td>29-Oct</td>
<td>In-town field trip</td>
<td>Lec13</td>
<td>H07</td>
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<td>10</td>
<td>3-Nov</td>
<td>Rainfall runoff estimate (curve number &amp; TR-55)</td>
<td>Lec14</td>
<td>H08</td>
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<tr>
<td>11</td>
<td>5-Nov</td>
<td>Soils in construction; earthwork; Introduction of final project</td>
<td>Lec15, soil quiz</td>
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<tr>
<td>11</td>
<td>10-Nov</td>
<td>Erosion and sediment control BMPs</td>
<td>Lec16</td>
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<td>Ex12</td>
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<tr>
<td>12</td>
<td>17-Nov</td>
<td>Transportation design &amp; horizontal and vertical alignment</td>
<td>Lec17, Q&amp;A on Exam 2</td>
<td></td>
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<td>Ex13</td>
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<tr>
<td>13</td>
<td>19-Nov</td>
<td>Guest lecture by Runzi Wang Q&amp;A on Exam 2</td>
<td>Work on Exam 13</td>
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<tr>
<td>13</td>
<td>24-Nov</td>
<td>TTI field trip</td>
<td>Journal due</td>
<td></td>
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<tr>
<td>14</td>
<td>26-Nov</td>
<td>Thanksgiving</td>
<td></td>
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<tr>
<td>14</td>
<td>1-Dec</td>
<td>Q&amp;A on exam and final project/work on Ex13</td>
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<tr>
<td>3-Dec</td>
<td>Wrap-up/MLA presentation</td>
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<td>Teaching eval.</td>
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<tr>
<td>8-Dec</td>
<td>MLA presentation; Dec 10 reading day</td>
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<tr>
<td>15</td>
<td>12/11</td>
<td>12:30-2:36pm Final Exam</td>
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</table>
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions
1. Course request type:  
   ☑ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  
   Department of Landscape Architecture and Urban Planning
3. Course prefix, number and complete title of course:  
   LAND 331 Landscape Construction III

   Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s):  
      From:  
      To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  

   Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes  ☑ No

6. If grade type is changing for existing course, indicate the new grade type:  
   □ Grade  □ S/U  □ P/F (CLMO)

7. If this course will be stacked, please indicate the course number of the stacked course:  

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://pr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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<tr>
<td>LAND</td>
<td>331</td>
<td>Landscape Construction III</td>
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<td>4.00</td>
<td>0.00 4.00 0406010006 1694 0 0 3 6 3 2 Level 3</td>
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   Approval recommended by:
   Dr. Ming-Han Li
   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College Review Committee Date

Department Head or Program Chair (If cross-listed course)
   Date

   Dean of College Date

   Submitted to Coordinating Board by:
   Chair, GC or UCC Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 08/14
Texas A&M University
Department of Landscape Architecture and Urban Planning

LAND 331 Landscape Architectural Construction III

Spring 2015

Instructor
Bruce Dvorak, ASLA, RLA
Associate Professor
A305 Langford Building, Phone 458-0628, bdvorak@tamu.edu
Office hours: to be determined

Yang Mi Kim, MLA
Lecturer
A105 Langford Building, Phone 845-7888, ymkim@arch.tamu.edu
Office hours: to be determined

Course Time and Location
TR 2:20-4:50pm; Langford C111/A300

Course Description
This is the last landscape construction course in the BLA curriculum. The course will cover (1) sustainable water management techniques in landscape development, (2) theory, principles and techniques of low impact development, (3) basic elements of landscape architectural construction, (4) construction document preparation, working drawings, project layout and design, and (5) theory and principles of irrigation design.

Students are expected to bring to this course a working knowledge of the design process, visual design elements and principles, basic hydraulics, basic knowledge of the natural systems that impact design, and knowledge of grading and drainage. Specific topics include:

- Drafting, lettering and clarity of details,
- Planting plans
- Rainwater harvesting
- Green roof technology
- Living wall technology
- Bioretention system
- Soil bioengineering system
- Construction with porous pavements
- Irrigation with reclaimed water
- Basic irrigation hydraulics (pressurized flow, head loss, design pressure, etc.)
- Irrigation statures, ordinances and licensing
- Irrigation with sprinklers
- Irrigation with drip emitters

Learning Objectives
After completing this course, students will possess:
- Knowledge of the general theories and basic technical skills regarding low impact design features such as green roofs, bioretention systems, porous pavements, etc.(see above)
- Knowledge of the theory and principles of planting plans
- Knowledge of the principles, and skills of preparing and assembling construction drawings by completing a full construction package
Texas A&M University  
Department of Landscape Architecture and Urban Planning  

- Knowledge of the principles of irrigation design, and skills of analyzing the need of supplemental irrigation by completing design exercises and passing exams  
- Ability to complete a semester long landscape construction working drawing package  
- Ability to apply design and planning principles of landscape irrigation  

**Required Textbook**  
None  

**Suggested Reference**  


**Prerequisite:** LAND 330  

**Course Logistics**  
Students are expected to attend the full class period. You are required to bring a scientific calculator to the class. You are also encouraged to bring your notebook and computer. Course materials such as handouts, homework, exercise, in-class assignments and supplemental materials will be scored in eLearning. You must check on new releases constantly and download them for use.  

**Evaluation**  
- Homework  
- Exercises  
- In-class assignments  
- Construction drawing package  
- Exams (including quizzes)  

10%  
40%  
10%  
20%  
20%  

**Grading Policy**  
A = 90%+, B = 80 to 89.9, C = 70 to 79.9, D = 60 to 69.9, F = below 60.  

**Homework** – Homework assignments should be neatly finished. All calculation processes and units should be clearly written. Showing answers without any calculation process will receive zero unless it is a short answer. Poorly written and illegible submissions will not be accepted. The due date for each homework will be indicated when it is assigned. Late homework will be graded for half credit. Any homework not turned in two weeks after the due date may be turned in for evaluation, but will receive a grade of zero.  

**Exercises** – Exercises are graphical vignettes typically issued in the AutoCAD drawing format. You are required to use AutoCAD to draft, draw and plot your solutions. For individuals who are not familiar with AutoCAD, you may turn in manually drafted solutions for the first two weeks of this semester. Starting in the third week, a 5% deduction of grade for manual drafting will be applied. Such a deduction scale will increase 5% every week. For example, in the 10th week the deduction will reach 40%. If work is done manually, submit photocopies of your originals.  

**In-class assignments** – Portions of the scheduled class meeting time will be used for in-class assignments. These assignments will be designed to illustrate concepts and problem solving techniques. In-class...
Texas A&M University  
Department of Landscape Architecture and Urban Planning

Assignments may be worked individually or in groups and will be due at the end of the class when assigned. In-class assignment may not be made up.

**Pin-ups** – During the semester, the instructors may select some details or plans designed and drawn by students for pin-up discussion. Grades of pin-up will be grouped under “in-class assignments.”

**Quizzes** – Quizzes are used to ensure that the students study assigned materials. Depending upon the class participation throughout the semester, quizzes may be given occasionally. All quizzes will be closed-book, closed-notes and should require approximately 20-30 minutes of class time.

**Construction drawing package** – At the end of the semester, you are required to submit a construction drawing package that includes most of the plans and details you have worked on as exercises. The submission must be plotted using AutoCAD. Manually drafted submissions will not be accepted, and a grade of zero will be assigned.

**Exams** – Exams will focus on the application of technical concepts. Exams will be limited to one class period. The Final Exam will be held on the university scheduled date. No other date will be specially arranged for any individuals.

**Extemuating circumstances** – If, at any time, extenuating circumstances interfere with your ability to meet class requirements, students are encouraged to contact Professor Dvorak prior to passage of a due date, giving you a quiz or exam, etc. The ability to make up missed work and the terms of any allowed make-up will be determined on a case-by-case basis.

**Submission Requirements and Late Work**
Submission requirements include the basis for determining whether or not a project is complete enough to evaluate. Construction documents are legal documents that govern construction and generally become part of a legal agreement between a client and a building contractor. They are intended to convey precise information and are free of graphic embellishment. In this course all drawings turned in for evaluation must be copies of original work and meet professional technical standards for working drawings. Submittals of original work will be returned to students immediately without grading. All solutions must be drafted, and lettered, or plotted from an appropriate CAD package, with all appropriate dimensions, elevations, contours, notes and labels typical of construction documents. **Students must sign their name on all sheets to indicate original work by the student.** Every sheet must have an appropriate title block, north arrow (if appropriate), scale designation (graphic and written), date, name and project/course title. Any exercise or project that fails to meet standards of completeness or neatness will receive a penalty of zero point. No work will be accepted for credit after the last class day.

The due date for each assignment should be indicated on the course work plan. Typically, the due date is **one week** after the assignment is issued. Note that the assignment will be collected in the beginning of the class. Submissions after instructors have started the class (i.e., the lecture) will be considered late. **ALL late homework will be graded for half credit (50%), and no assignment will be accepted after the graded assignments are returned, resulting in a grade of zero.**

If submitted work is evidently **incomplete**, the work will be returned instantly without grading. The subsequent submission will be considered late. **Again, no work will be accepted after the graded assignments are returned, resulting in a grade of zero.**

**Attendance Policy**
“The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located
Texas A&M University  
Department of Landscape Architecture and Urban Planning  

on-line at http://student-rules.tamu.edu/rule07."  

**Academic Integrity Statement and Policy**  
"An Aggie does not lie, cheat or steal, or tolerate those who do."  

The Aggie Code of Honor states that the students at Texas A&M University should value honesty and person integrity. Therefore, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty.  

For exercises assigned as individual work, if more than one student is found to submit the same (or substantially similar) copied work, the grade for that work for all participants may be 0.  

Students are referred to the Honor Council Rules and Procedures that may be found at the website: http://aggiehonor.tamu.edu.  

**Americans with Disabilities Act (ADA) Policy Statement**  
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu/.  

**Safety and Facility Upkeep**  
Throughout the semester, you may engage in activities where you choose to handle tools, equipment, and/or materials that require care in their use. Maintain your desk and workspace so that no obstacles that could harm others (i.e., cutting tools) are left unattended. Keep your work environment clean. If you make use of the woodshop, complete the safety course found through the woodshop web page located at: http://www.arch.tamu.edu/content/inside/services/woodshop.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Activity</th>
<th>Homework</th>
<th>Exercise</th>
<th>Due</th>
<th>Readings</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>1</td>
<td>20-Jan</td>
<td>Course introduction, grading review</td>
<td>Lec01, 02, Land F/X</td>
<td></td>
<td>Ex01-grading plan</td>
<td>Ch.1; Ch.2 p.30-39</td>
<td>EPA website &amp; Banking on Green by ASLA</td>
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<tr>
<td></td>
<td>22-Jan</td>
<td>Layout; LID: overview</td>
<td>Lec03, 04</td>
<td></td>
<td>Ex02-layout plan</td>
<td>Ex03: water R/M plan</td>
<td>Ex01.1; Readings</td>
<td></td>
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<tr>
<td>2</td>
<td>27-Jan</td>
<td>Planting design theory (MLA-concrete)</td>
<td>Lec05</td>
<td></td>
<td>Ex03-water R/M plan</td>
<td>Ex01.1; Readings</td>
<td>Ex02:1</td>
<td></td>
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<td></td>
<td>29-Jan</td>
<td>Planting design application + visit Schob Nature Preserve</td>
<td>Lec06</td>
<td></td>
<td>Ex04-planting plan (Schob)</td>
<td>Ex03</td>
<td>Li et al. (2014)</td>
<td>Career Fair Feb. 5; Aggie Workshop Feb. 6</td>
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<tr>
<td></td>
<td>3-Feb</td>
<td>LID: bioretenion (MLA-masonry)</td>
<td>Lec07, in-class1</td>
<td></td>
<td>Ex05-environment; Ex06-bioswale</td>
<td>Ex04.1</td>
<td>Li and Edelman</td>
<td></td>
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<tr>
<td></td>
<td>5-Feb</td>
<td>Preparation for Aggie Workshop &amp; Career Fair, Schob Park</td>
<td>Prep CF/AW</td>
<td></td>
<td></td>
<td>Ex05: water R/M plan</td>
<td>Ex02:1</td>
<td></td>
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<tr>
<td></td>
<td>10-Feb</td>
<td>LID: soil bioengineering (MLA-steps)</td>
<td>Lec08</td>
<td></td>
<td></td>
<td>Ex05, Ex06</td>
<td>Ex02:2; Ex02:2</td>
<td></td>
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<tr>
<td></td>
<td>12-Feb</td>
<td>LID: porous pavement (MLA-lumber)</td>
<td>Lec09, in-class2</td>
<td></td>
<td>Ex07-porous pavement</td>
<td>Ex06</td>
<td>Ferguson book</td>
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<tr>
<td></td>
<td>17-Feb</td>
<td>LID: green and living walls</td>
<td>Lec10</td>
<td></td>
<td>Ex08-green and living walls</td>
<td>Ex08</td>
<td>CELA meeting at UTA</td>
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<tr>
<td></td>
<td>19-Feb</td>
<td>LID: green roofs 1</td>
<td>Lec11, 1</td>
<td></td>
<td>Ex09, 10-green roofs</td>
<td>Ex08</td>
<td>Ex02:2</td>
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<td></td>
<td>24-Feb</td>
<td>LID: green roofs 2</td>
<td>Lec11, 2, in-class3</td>
<td></td>
<td>Ex09, 10-green roofs</td>
<td>Ex07</td>
<td>Ex09, Ex10</td>
<td></td>
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<td></td>
<td>26-Feb</td>
<td>LID: rainwater harvesting</td>
<td>Lec12, 1 &amp; 12.2, in-class4</td>
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<td>Ex08</td>
<td>BLA accredited, visit Feb. 22-25</td>
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<td>3</td>
<td>3-Mar</td>
<td>LID: irrigation with reclaimed water</td>
<td>Lec13</td>
<td></td>
<td>Ex11-planning plan (mixed use)</td>
<td>Ex09, Ex10</td>
<td>RH manual</td>
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<td></td>
<td>5-Mar</td>
<td>Exam 1</td>
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<td>Ex11.1</td>
<td>Readings</td>
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<td>4</td>
<td>10-Mar</td>
<td>LID: introduction to irrigation and return Exam 1</td>
<td>Lec14</td>
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<td>Ex11.1</td>
<td>Ch.8 p.277-281</td>
<td>Ch.8 p.296-303</td>
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<td>12-Mar</td>
<td>LID: basic pressured hydrants, Hazen &amp; Williams equation</td>
<td>Lec15, in-class5</td>
<td></td>
<td>Hw01</td>
<td>Ch.8 p.296-303</td>
<td>Ch.8 p.317-319</td>
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<td></td>
<td>17-Mar</td>
<td>Spring break</td>
<td></td>
<td></td>
<td>Hw01</td>
<td>Ch.8 p.284-286</td>
<td>CELA March 24-28</td>
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<td>19-Mar</td>
<td>Spring break</td>
<td></td>
<td></td>
<td>Hw01</td>
<td>Ch.8 p.317-319</td>
<td>Ch.8 p.328-328</td>
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<tr>
<td>5</td>
<td>24-Mar</td>
<td>LID: determining flow capacity</td>
<td>Lec16</td>
<td></td>
<td>Hw02</td>
<td>Ch.8 p.328-328</td>
<td>Ch.8 p.337-340</td>
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<td>26-Mar</td>
<td>LID: irrigation components, backflow prevention and products</td>
<td>Lec17</td>
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<td>Ch.8 p.328-328</td>
<td>CELA March 24-28</td>
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<td>6</td>
<td>31-Mar</td>
<td>LID: pressure loss</td>
<td>Lec18, in-class6</td>
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<td>Hw02</td>
<td>Ch.8 p.328-328</td>
<td>Ch.8 p.328-328</td>
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<td>1-Apr</td>
<td>LID: irrigation layout</td>
<td>Lec19</td>
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<td>Ex12-irrigation design</td>
<td>Ch.8 p.328-328</td>
<td>Ch.8 p.328-328</td>
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<td>2-Apr</td>
<td>LID: basic principles, irrigation layout</td>
<td>Lec20, in-class7</td>
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<td>Hw03</td>
<td>Ex13</td>
<td>Ch.8 p.328-328</td>
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<td>LID: controller program</td>
<td>Lec21, in-class8</td>
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<td>Ex13-irrigation design</td>
<td>Ex12</td>
<td>PAB Apr. 17</td>
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<td>9-Apr</td>
<td>LID: loop design</td>
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<td>Ch.8 p.328-328</td>
<td>TxASLA Apr. 22-24, Q-drop Apr. 21</td>
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<td>14-Apr</td>
<td>LID &amp; LID: drip irrigation; Review final package criteria</td>
<td>Lec22, in-class9</td>
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<td>Ex13</td>
<td>End-of-semester review</td>
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<td>16-Apr</td>
<td>Toro guest lecture</td>
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<td>21-Apr</td>
<td>Landscape performance &amp; SITES</td>
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<td>Ex13</td>
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<td>23-Apr</td>
<td>Field trip to Galveston Texas ASLA Annual Meeting</td>
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<td>10</td>
<td>28-Apr</td>
<td>Teaching evaluation, exam 2 review and campus walk</td>
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<td>Ex13</td>
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<td>4-May</td>
<td>Final package due at 5pm (no class, this is redefined day for Friday classes)</td>
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<td>Ex13</td>
<td>Construction package</td>
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</table>
Texas A&M University
Department of Landscape Architecture and Urban Planning

LAND 614 Landscape Architectural Construction

Spring 2015

Instructor
Dr. Ming-Han Li, ASLA, P.L.A., P.E.
A306 Langford Building
845-7571 (LAUP); minghan@tamu.edu
Office hours: to be determined

Teaching Assistant
Sinan Zhong, MLA
zsn198838@email.tamu.edu

Course Time and Location
TR 2:20-4:50pm; Langford C111/A300

Course Description
This is the second graduate landscape construction course in the MLA curriculum. The course will cover
(1) sustainable water management techniques in landscape development, (2) theory, principles and
techniques of low impact development, (3) basic elements of landscape architectural construction, (4)
construction document preparation, working drawings, project layout and design, and (5) theory and
principles of irrigation design.

Students are expected to bring to this course a working knowledge of the design process, visual design
elements and principles, basic hydraulics, basic knowledge of the natural systems that impact design, and
knowledge of grading and drainage. Specific topics include:

- Construction procedures of concrete, masonry and wood,
- Drafting, lettering and clarity of details,
- Planting for sustainability
- Rainwater harvesting
- Green roof technology
- Living wall technology
- Bioretention system
- Soil bioengineering system
- Irrigation with reclaimed water
- Basic irrigation hydraulics (pressurized flow, head loss, design pressure, etc.)
- Irrigation structures, ordinances and licensing
- Irrigation with sprinklers
- Irrigation with drip emitters

Learning Objectives
After completing this course, students will possess:

- Knowledge of the principles, and skills of preparing and assembling construction drawings by
  completing a full construction package
- Knowledge of the principles of irrigation design, and skills of analyzing the need of supplemental
  irrigation by completing design exercises and passing exams
- Knowledge of the equipment and principles of designing water features by lectures and
demonstrations
Texas A&M University
Department of Landscape Architecture and Urban Planning

- Knowledge of the principles of lighting design by lectures
- Ability to complete a typical landscape construction working drawing package
- Ability to apply design and planning principles of landscape irrigation

Required Textbook
None

Suggested Reference


Prerequisite: LAND 612

Course Logistics
Students are expected to attend the full class period. You are required to bring a scientific calculator to the class. You are also encouraged to bring your notebook computer. Course materials such as handouts, homework, exercise, in-class assignments and supplemental materials will be stored in eLearning. You must check on new releases constantly and download them for use.

Evaluation
Homework 10%
Exercises 30%
In-class assignments 10%
Semester project 15%
Construction drawing package 15%
Exams (including quizzes) 20%

Grading Policy
A = 90%+, B = 80 to 89.9, C = 70 to 79.9, D = 60 to 69.9, F = below 60.

Homework – Homework assignments should be neatly finished. All calculation processes and units should be clearly written. Showing answers without any calculation process will receive zero unless it is a short answer. Poorly written and illegible submissions will not be accepted. The due date for each homework will be indicated when it is assigned. Late homework will be graded for half credit. Any homework not turned in two weeks after the due date may be turned in for evaluation, but will receive a grade of zero.

Exercises – Exercises are graphical vignettes typically issued in the AutoCAD drawing format. You are required to use AutoCAD to draft, draw and plot your solutions. For individuals who are not familiar with AutoCAD, you may turn in manually drafted solutions for the first two weeks of this semester. Starting in the third week, a 5% deduction of grade for manual drafting will be applied. Such a deduction scale will increase 5% every week. For example, in the 10th week the deduction will reach 40%. If work is done manually, submit photocopies of your originals.

In-class assignments – Portions of the scheduled class meeting time will be used for in-class assignments. These assignments will be designed to illustrate concepts and problem solving techniques. In-class
Texas A&M University
Department of Landscape Architecture and Urban Planning

Assignments may be worked individually or in groups and will be due at the end of the class when assigned. In-class assignment may not be made up.

Pin-ups – During the semester, the instructors may select some details or plans designed and drawn by students for pin-up discussion. Grades of pin-up will be grouped under “in-class assignments.”

Oral presentation (semester project) – Each student is required to make a 15-minute PowerPoint presentation on one of the subjects covered in the course material or a related topic. A list of subject areas will be distributed at the beginning of the semester. In advance of the presentation, the student will supply the instructor with a final outline of their presentation. The final PowerPoint file must be submitted by the morning of the day before the presentation. Even earlier is preferable since that will give you more time to make suggested adjustments to the presentation.

The student is also required to write a three page (1500 words) summary of that topic. The summary shall be submitted on the presentation day.

Quizzes – Quiz are used to ensure that the students study assigned materials. Depending upon the class participation throughout the semester, quizzes may be given occasionally. All quizzes will be closed-book, closed-notes and should require approximately 20-30 minutes of class time.

Construction drawing package – At the end of the semester, you are required to submit a construction drawing package that includes most of the plans and details you have worked on as exercises. The submission must be plotted using AutoCAD. Manually drafted submissions will not be accepted, and a grade of zero will be assigned.

Exams – Exams will focus on the application of technical concepts. Exams will be limited to one class period. The Final Exam will be held on the university scheduled date. No other date will be specially arranged for any individuals.

Extinguishing circumstances – If, at any time, extenuating circumstances interfere with your ability to meet class requirements, students are encouraged to contact Dr. Li prior to passage of a due date, giving of a quiz or exam, etc. The ability to make up missed work and the terms of any allowed make-up will be determined on a case-by-case basis.

Submission Requirements and Late Work
Submission requirements include the basis for determining whether or not a project is complete enough to evaluate. Construction documents are legal documents that govern construction and generally become part of a legal agreement between a client and a building contractor. They are intended to convey precise information and are free of graphic embellishment. In this course all drawings turned in for evaluation must be copies of original work and meet professional technical standards for working drawings. Submittals of original work will be returned to students immediately without grading. All solutions must be drafted, and lettered, or plotted from an appropriate CAD package, with all appropriate dimensions, elevations, contours, notes and labels typical of construction documents. Students must sign on all sheets to indicate original work by the student. Every sheet must have an appropriate title block, north arrow (if appropriate), scale designation (graphic and written), date, name and project/course title. Any exercise or project that fails to meet standards of completeness or neatness will receive a penalty of zero point. No work will be accepted for credit after the last class day.

The due date for each assignment should be indicated on the course work plan. Typically, the due date is one week after the assignment is issued. Note that the assignment will be collected in the beginning of the class. Submissions after instructors have started the class (i.e., the lecture) will be considered late. ALL
Texas A&M University
Department of Landscape Architecture and Urban Planning

Late homework will be graded for half credit (50%), and no assignment will be accepted after the graded assignments are returned, resulting in a grade of zero.

If submitted work is evidently incomplete, the work will be returned instantly without grading. The subsequent submission will be considered late. Again, no work will be accepted after the graded assignments are returned, resulting in a grade of zero.

Attendance Policy
"The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at http://student-rules.tamu.edu/rule07."

Academic Integrity Statement and Policy
"An Aggie does not lie, cheat or steal, or tolerate those who do."

The Aggie Code of Honor states that the students at Texas A&M University should value honesty and person integrity. Therefore, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty.

Students are referred to the Honor Council Rules and Procedures that may be found at the website: http://aggiehonor.tamu.edu.

Americans with Disabilities Act (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu/.

Safety and Facility Upkeep
Throughout the semester, you may engage in activities where you choose to handle tools, equipment, and/or materials that require care in their use. Maintain your desk and workspace so that no obstacles that could harm others (i.e., cutting tools) are left unattended. Keep your work environment clean.
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional

- Submit original form and attachments -

Form Instructions:

1. Course request type:
   - ✓ Undergraduate
   - [ ] Graduate
   - [ ] First Professional (DDS, MD)

2. Request submitted by (Department or Program Name):
   - Department of Mathematics

3. Course prefix, number and complete title of course:
   - MATH 167, For All Practical Purposes

4. Change requested
   a. Prerequisite(s): From: High school Algebra I and II.
      To: High school Algebra I and II.
   b. Withdrawal (reason):
   c. Cross-list with:

5. Is this an existing core curriculum course?
   - ✓ Yes
   - [ ] No

6. If grade type is changing for existing course, indicate the new grade type:
   - [ ] Grade
   - [ ] S/U
   - [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   - I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:

   Application of mathematics to real world situations using quantitative methods; includes urban services and elements of management science (optimal routes, planning and scheduling), elements of statistics (sampling/polling methods, analyzing data to make decisions), codes used by stores, credit cards, internet security, cryptography.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

   Application of mathematics to topics of contemporary societal importance using quantitative methods; may include elements of management science (optimal routes, planning and scheduling), statistics (sampling/polling methods, analyzing data to make decisions), cryptography (codes used by stores, credit cards, internet security), fairness (apportionment, voting), patterns (symmetry, tessellations, fractals), world health.

10. Lec. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code
    3.00 0.00 0.00 3.00 2701010001 1875 0 0 3 6 3 2 1

11. a. As currently in course inventory:

    Prefix Course # Title (excluding punctuation)
    MATH 167 FOR ALL PRACTICAL PURPOSES

    Lec. Lab Other SCH CIP and Fund Code Admin. Unit FICE Code
    3.00 0.00 0.00 3.00 2701010001 1875 0 0 3 6 3 2 1

    b. Change to:

    Prefix Course # Title (excluding punctuation)
    MATH 167 EXPLORATIONS IN MATH

    Lec. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year FICE Code
    3.00 0.00 0.00 3.00 2701010001 1875 16 - 17 0 0 3 6 3 2

Approval recommended by:
Dr. Paulo Lima-Filho
Department Head or Program Chair
(If cross-listed course)

Dr. Paulo Lima-Filho
Department Head or Program Chair
(If cross-listed course)

Chair, College Review Committee
Date

Dean of College
Date

Chair, GC or UCC
Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional

Form Instructions
1. Course request type: ✓ Undergraduate    ☐ Graduate    ☐ First Professional (DDS, MD, JD, PharmD, DPA)
2. Request submitted by (Department or Program Name): Department of Mathematics
3. Course prefix, number and complete title of course: MATH 423, Linear Algebra II

Attach a brief supporting statement for changes made to items 4a thru 4l and 10 below.

4. Change requested
   a. Prerequisite(s): From: MATH 304 or MATH 323, or approval of instructor. To: MATH 220 or CSCE 222, MATH 304 or MATH 323, or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes    ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade    ☑ S/U    ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>423</td>
<td>LINEAR ALGEBRA II</td>
</tr>
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<table>
<thead>
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<th>Admin. Unit</th>
<th>FICE Code</th>
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<td>1875</td>
<td>0 0 3 6 3 2 4</td>
</tr>
</tbody>
</table>

b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
</thead>
</table>

Approval recommended by:
Dr. Paulo Lima-Filho
Department Head or Program Chair (Type Name & Sign) Date: 10/14/15

Chair, College, Review Committee Date: 10-15-15

Dean of College Date: 10-16-15

Chair, GC or UCC Date: 10-16-15

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Supporting Statement for Math 423

The new prerequisites indicate the proof solving background that is needed for successful completion of Math 423. This will allow for better function of the stacked honors and regular sections.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Mathematics
3. Course prefix, number and complete title of course: MATH 425, The Mathematics of Contingent Claims

Attach a brief supporting statement for changes made to items 4a thru 4d and 10 below.

4. Change requested
   a. Prerequisite(s): From: MATH 172 or equivalent; MATH 308 or equivalent; basic probability.
   To: MATH 308; MATH 411, STAT 211, or STAT 414.
   b. Withdrawal (reason): ______________________________
   c. Cross-list with: ______________________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLM Rd)
7. If this course will be stacked, please indicate the course number of the stacked course: ______________________________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
   Prefix | Course # | Title (excluding punctuation)
   MATH | 425 | MATH OF CONTINGENT CLAIM

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>FICE Code</th>
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<td>1875</td>
<td>0 0 3 6 3 2</td>
<td>4</td>
</tr>
</tbody>
</table>
   b. Change to:
   Prefix | Course # | Title (excluding punctuation)

   | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |

Approval recommended by: ______________________________
Dr. Paulo Lima-Filho
Department Head or Program Chair (Type Name & Sign) Date 10/14/15

Chair, College Review Committee

Department Head or Program Chair (Type Name & Sign) Date 10-15-15

Dean of College

Chair, GC or UCC

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services — 08/14
Supporting Statement for Math 425

The new prerequisites indicate the “basic probability” courses that are needed for successful completion of Math 425. This will allow for monitoring of prerequisites in the Howdy system. Math 172 is being eliminated as a prerequisite because it is a prerequisite for Math 308.
CASA Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☒ Undergraduate ☐ Graduate ☐ First Professional (MD, DO, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Engineering Technology and Industrial Distribution
3. Course prefix, number and complete title of course: MMET 275 Mechanics for Technologists

4. Change requested
   a. Prerequisite(s) From: To:
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete items 1a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 1a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☒ Yes ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☒ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course: ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description: Forces, moments and couples in 2-D and 3-D systems; equilibrium of rigid bodies; friction and applications; centroids and moments of inertia; review of particle dynamic principles; kinematics and kinetics of rigid bodies; principles of impulse-momentum and work-energy; computer use in selected areas.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): No change.

10. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMET</td>
<td>275</td>
<td>MECHANICS FOR TECHNOLOGISTS</td>
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</tbody>
</table>

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<tr>
<th>Lect.</th>
<th>Lab.</th>
<th>Other</th>
<th>SCH</th>
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<th>EICE Code</th>
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   b. Change to:

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<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMET</td>
<td>275</td>
<td>MECHANICS FOR TECHNOLOGISTS</td>
</tr>
</tbody>
</table>

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<th>Lect.</th>
<th>Lab.</th>
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</table>

   Approval recommended by:

   Dr. Jay Porter
   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College Review Committee Date

   Dean of College Date

   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

   Curricular Services - 08/14
MMET 275 - MECHANICS FOR TECHNOLOGISTS
FALL 2016 - SYLLABUS

Instructor: Dr. Mathew Kuttolamadom (Dr. K)
Office: 117E Thompson Hall (THOM)
Phone: (979) 862-8472
Email: mathew@tamu.edu

Class Time/Location: (TR) 9:35 am - 10:50 am [112D Thompson Hall (THOM)]
Office Hours: (TR) 1 pm - 2 pm; [Grader: 2 pm - 3 pm in SME office (opposite to THOM-117)]
Credit Hours: 3

COURSE DESCRIPTION:
Forces, moments and couples in 2-D/3-D systems; Equilibrium of rigid bodies; Structural analysis;
Friction; Centroids and moments of inertia.

LEARNING OUTCOMES:
1. Students will be able to apply the concepts and procedures enabling them to identify, idealize and
analyze mechanical force systems via sketches and free-body diagrams. (ABET outcomes: a, b, f, l,
m, n)
2. Students will be able to apply 2D/3D equations of equilibrium to particle/rigid-body systems for
solving problems involving trusses, frames, machines and other structural and mechanical systems.
(ABET outcomes: a, b, f, l, m, n)
3. Students will be able to find geometric and mass properties of collections of areas/volumes, to find
internal forces developed in structural members, and to apply the concepts of dry friction. (ABET
outcomes: a, b, f, l, m, n)

PREREQUISITES:
MATH 152 - Engineering Mathematics II
PHYS 218 - Mechanics

GRADING SCHEME:                          COURSE GRADE:
Homework  10%                          A       90 - 100%
Quiz       20%                          B       80 - 89.9%
Exam 1   20%                             C       70 - 79.9%
Exam 2   25%                             D       60 - 69.9%
Final Exam  25%                          F       < 59.9%

TEXT:
**SCHEDULE:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic (Chapters)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>9/1, 9/3, 9/4</td>
<td>Introduction, General Principles (1), Force Vectors (2)</td>
</tr>
<tr>
<td>2</td>
<td>9/8, 9/10, 9/11</td>
<td>Force Vectors (2)</td>
</tr>
<tr>
<td>3</td>
<td>9/15, 9/17, 9/18</td>
<td>Equilibrium of a Particle (3)</td>
</tr>
<tr>
<td>4</td>
<td>9/22, 9/24, 9/25</td>
<td>Force System Resultants (4), Review</td>
</tr>
<tr>
<td>5</td>
<td><strong>9/29</strong>, 10/1, 10/2</td>
<td><strong>Exam-1</strong>, Force System Resultants (4)</td>
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<tr>
<td>6</td>
<td>10/6, 10/8, 10/9</td>
<td>Equilibrium of a Rigid Body (5)</td>
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<tr>
<td>7</td>
<td>10/13, 10/15, 10/16</td>
<td>Equilibrium of a Rigid Body (5)</td>
</tr>
<tr>
<td>8</td>
<td>10/20, 10/22, 10/23</td>
<td>Structural Analysis (6)</td>
</tr>
<tr>
<td>9</td>
<td>10/27, 10/29, 10/30</td>
<td>Structural Analysis (6), Review</td>
</tr>
<tr>
<td>10</td>
<td><strong>11/3</strong>, 11/5, 11/6</td>
<td><strong>Exam-2</strong>, Internal Forces (7)</td>
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<tr>
<td>11</td>
<td>11/10, 11/12, 11/13</td>
<td>Internal Forces (7)</td>
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<tr>
<td>12</td>
<td>11/17, 11/19, 11/20</td>
<td>Friction (8)</td>
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<td>13</td>
<td>11/24</td>
<td>Center of Gravity (9)</td>
</tr>
<tr>
<td>14</td>
<td>12/1, 12/3, 12/4</td>
<td>Center of Gravity (9), Moments of Inertia (10)</td>
</tr>
<tr>
<td>15</td>
<td>12/7 (redefined), 12/8</td>
<td>Moments of Inertia (10), Review</td>
</tr>
<tr>
<td></td>
<td><strong>12/11</strong> [Friday]</td>
<td>Final Exam [12:30 pm - 2:30 pm]</td>
</tr>
</tbody>
</table>

**AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit [http://disability.tamu.edu](http://disability.tamu.edu).

**ACADEMIC DISHONESTY:**
Aggies have a Code of Honor, which is stated as: "Aggies do not lie, cheat, or steal, nor do they tolerate those who do." The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. It only calls for honesty and integrity, characteristics that Aggies have always exemplified. The Aggie Code of Honor functions as a symbol to all Aggies, promoting understanding and loyalty to truth and confidence in each other. Effective September 1, 2004, the Office of the Aggie Honor System is operational; see [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu). There is a zero tolerance for academic dishonesty. Violations will be addressed by the Aggie Honor System Office and in compliance with Texas A&M Student Rules, [http://student-rules.tamu.edu rule20](http://student-rules.tamu.edu rule20).

**ATTENDANCE:**
This course will follow the attendance policy posted at [http://student-rules.tamu.edu rule07](http://student-rules.tamu.edu rule07). In particular, attendance is required, and appropriate documentation from an authorized health service personnel is required for health-related absences. Repeated unexcused absences will result in a reduction of points. Attendance will be taken on random days in the form of quizzes or otherwise. Regular attendance and active participation in class is essential for mastering the course material.
**Pointers for Success in This Course:**
- I expect the same of you that you do of me, *i.e.*, come to every class on time, be intellectually prepared, engage yourself in the learning process and take a professional approach to your work.
- Announcements, course notes, homework and exercises will be posted through email/eCampus.
- Assigned *homework* is due in 1 week at the beginning of class (Late work => No grade, except for university excused absences).
- There will be a number of in-class *quizzes* which account for 20% of your grade. Being present in class and being up to speed with ongoing topics is thus obviously essential for a good grade.
- You can expect a similar level/type of *exam* questions as seen in your homework and exercises.
- Self-evaluate your course grade after each of the exams – if concerned, talk with me early.
- *Email* is the best way to get in touch with me. Prefix your subject line with "MMET-275: "
- Remember that there is a difference between having the knowledge and being able to apply it!

**ABET Outcome Assessment & Evaluation:**
A Manufacturing and Mechanical Engineering Technology (MMET) graduate should have the following abilities at the time of graduation. The program outcomes and the course impacts are:

<table>
<thead>
<tr>
<th>Program Outcomes</th>
<th>Course Impact Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) An appropriate mastery of the knowledge, techniques, skills and modern tools of manufacturing and mechanical systems and processes.</td>
<td>High</td>
</tr>
<tr>
<td>b) An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.</td>
<td>High</td>
</tr>
<tr>
<td>c) An ability to conduct, analyze and interpret experiments and apply experimental results to improve processes.</td>
<td>-</td>
</tr>
<tr>
<td>d) An ability to apply creativity in the design of manufacturing and mechanical systems, components or processes.</td>
<td>-</td>
</tr>
<tr>
<td>e) An ability to function effectively on teams.</td>
<td>-</td>
</tr>
<tr>
<td>f) An ability to identify, analyze and solve technical problems.</td>
<td>High</td>
</tr>
<tr>
<td>g) An ability to communicate effectively.</td>
<td>-</td>
</tr>
<tr>
<td>h) An ability to engage in and recognize the need for lifelong learning.</td>
<td>-</td>
</tr>
<tr>
<td>i) An ability to understand professional, ethical and social</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>---</td>
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</tr>
<tr>
<td>j)</td>
<td>A respect for diversity and knowledge of contemporary professional, societal and global issues.</td>
</tr>
<tr>
<td>k)</td>
<td>A commitment to quality, timeliness, and continuous improvement.</td>
</tr>
<tr>
<td>l)</td>
<td>An ability to apply the technologies of engineering materials, manufacturing processes, automation, production operations, quality, statics, dynamics, strength of materials, fluid power or fluid mechanics, thermodynamics, and either electrical power or electronics, and statistics to the solution of manufacturing and mechanical problems.</td>
</tr>
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<td>m)</td>
<td>An ability to apply with added technical depth: manufacturing processes, mechanical design, automation and controls, and production operations.</td>
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<td>n)</td>
<td>An ability to apply physics having an emphasis in applied mechanics, plus added technical topics in physics and chemistry principles related to manufacturing and mechanical systems and processes.</td>
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<tr>
<td>o)</td>
<td>An ability to successfully complete a comprehensive design project related to mechanical or manufacturing fields.</td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Request submitted by (Department or Program Name): Department of Performance Studies
2. Course prefix, number and complete title of course: MUSC 311 Music in Early Western Culture

Attach a brief supporting statement for changes made to items 3a through 3d and 6 below.
   a. Prerequisite(s): From: Music Theory II or approval of instructor To: or approval of instructor
   b. Withdrawal reason: MUSC 202 has been withdrawn
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
4. For informational purposes only, please indicate course number if this course will be stacked:
5. [✓] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/ExportControlBasicsforDistanceEducationv2413.pdf).
6. Complete current course title and current catalog course description:

7. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

8. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:

Donnalee Dov \[Signature\] Sept 7, 2015

Chair, College Review Committee \[Signature\] Date

Department Head or Program Chair (Type Name & Sign) Date

Dean of College \[Signature\] Date

Submitted to Coordinating Board by:

Chair, GC or UCC \[Signature\] Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 03/14

Received Date:
MEMORANDUM

TO: Faculty Senate

THROUGH: Tim Scott
Chair, Undergraduate Curriculum Committee

THROUGH: Nancy Street
Chair, College of Liberal Arts Undergraduate Instruction Committee

THROUGH: Donnalee Dox
Interim Head, Department of Performance Studies

FROM: Jeffrey M. Morris
Director of Undergraduate Studies, Department of Performance Studies

SUBJECT: MUSC 311 Music in Early Western Culture: Removing a Deprecated Prerequisite

MUSC 202 Fundamentals of Music is listed as a prerequisite for MUSC 311 Music in Early Western Culture. Since MUSC 202 has been withdrawn (cf. FS.32.95), we wish to remove it from the prerequisite listing for MUSC 311.
Texas A&M University

Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

Form Instructions

1. Request submitted by (Department or Program Name): Department of Performance Studies

2. Course prefix, number and complete title of course:
   MUSC 312 Music in Modern Western Culture

3. Change requested
   MUSC 202 Fundamentals of Music, MUSC 205 MUSC 205 Music Theory II —
   a. Prerequisite(s):
      From: Music Theory II or approval of instructor
      To: or approval of instructor
   b. Withdrawal (reason): MUSC 202 has been withdrawn
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

4. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

5. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/ExportControlBasicsforDistanceEducationVer2413.pdf)

6. Complete current course title and current catalog course description:

7. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

8. a. As currently in course inventory:

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Approval recommended by:

Donnalee Dox
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 03/14
MEMORANDUM

TO: Faculty Senate

THROUGH: Tim Scott
Chair, Undergraduate Curriculum Committee

THROUGH: Nancy Street
Chair, College of Liberal Arts Undergraduate Instruction Committee

THROUGH: Domnal Dox
Interim Head, Department of Performance Studies

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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☐ Undergraduate ☐ Graduated ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Political Science
3. Course prefix, number and complete title of course: POLS 300 FOUNDATIONS OF POLITICAL SCIENCE

4. Changes requested
   a. Prerequisite(s): From: POLS 209, POLS 207, POLS 209; JUNIOR
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade ☐ S/U ☐ P/F (CLMP)

7. If this course will be stacked, please indicate the course number of the stacked course:
   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vetansu.edu/resources/export-controls/export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Foundations of Political Science. (3-0). Credit 3. Survey of the scholarly discipline of political science, the subfields of the discipline, the major research questions and the modes of scholarship in the latter subfields, and the character of the discipline as a profession. Prerequisites: POLS 206, POLS 207, POLS 209; junior classification.
   3.000 Credit hours
   3.000 Lecture hours

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Foundations of Political Science. (3-0). Credit 3. Survey of the scholarly discipline of political science and its theoretical foundations, principal subfields, major research questions, and modes of scholarship. Prerequisites: none.
   3.000 Credit hours
   3.000 Lecture hours

11. As currently in course inventory:

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Approval recommended by:

William Clark
Department Head or Program Chair (Type Name & Sign) Date: 9/21/15
Chair, College Review Committee Date: 10-19-15
Dean of College Date: 10-20-15

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 08/14

RECEIVED 10-22-2015 CURRICULAR SERVICES
October 19, 2015

TO: Steve Oberhelman, Associate Dean for Undergraduate Studies

FROM: Joseph Ura, Associate Professor of Political Science

SUBJECT: Renumbering POLS 300 to POLS 200

The faculty of the Department of Political Science has voted to renumber POLS 300 (Foundations of Political Science) to POLS 200. The changed number better reflects the content of the course, which emphasizes introductory material in the field.
Political Science 200-100
Foundations of Political Science

Course Information

Instructor: Joseph Daniel Ura
Associate Professor of Political Science

Email: jura@tamu.edu

Telephone: 979.845.2327

Class Meetings: MWF, 10:00-10:50AM, Allen 1008

Office Hours: MW, 1:00-3:00PM, Allen 2117

Credit Hours: 3.0

Prerequisites: None

Course Description

Survey of the scholarly discipline of political science and its theoretical foundations, principal subfields, major research questions, and modes of scholarship.

Learning Objectives

At the conclusion of this course, student should be able to:

- Recognize political behavior and distinguish it from other collective activities.
- Explain fundamental political science concepts and apply them to analyze historical, contemporary, and theoretical political decisions and events.
- Acknowledge and address the costs and benefits of political behavior in human societies.
- Demonstrate critical thinking about major ideas and themes in political science.

Reading Assignments and Texts

Reading assignments for each week of class are listed in the Course Schedule section of this syllabus. With the exception of the first week’s assignments, readings should be completed prior to each week’s class meetings. All reading assignments are available on the internet or through the University Library’s e-Reserve system. You need not purchase any books for this class. The schedule of assigned readings indicates how to access each item listed. If you have trouble accessing any of the assigned materials, please let me know as soon as possible.

With a few exceptions, assigned readings are primary sources rather than pedagogical texts. They deal with complicated subjects with which you may not have much previous knowledge. Understanding the arguments and ideas in these selections may sometime be difficult, and you may struggle to grasp what an author is trying to communicate or the importance of his or her ideas.
This is completely normal; in fact, it is unavoidable. Do not stop reading. Do not stop thinking. Do not be afraid to ask your classmates or me for help. Do not give up. A willingness to work to understand something new in spite of difficulties you encounter is one of the most valuable character traits you can have.

**Grades**

Student rule 10.3 explains, in part:

*The five passing grades at the undergraduate level are, A, B, C, D and S, representing varying degrees of achievement; these letters carry grade points and significance as follows:*

*Assigned by the instructor:*

- **A:** Excellent, 4 grade points per semester hour
- **B:** Good, 3 grade points per semester hour
- **C:** Satisfactory, 2 grade points per semester hour
- **D:** Passing, 1 grade point per semester hour
- **F:** Failing, no grade points, hours included in GPR
- **I:** Incomplete, no grade points (hours not included in GPR)

*Grades assigned if student is taking an undergraduate course S/U:*

- **S:** Satisfactory (C or above), hours not included in GPR
- **U:** Unsatisfactory (D or F), no grade points, hours included in GPR

Grades in this course will be assigned with those guidelines in mind. Students should expect that grades of **A** will be awarded only to those students who demonstrate especially strong command of the material covered in the course. Work that is merely good or satisfactory will be assigned grades of **B** or **C**, respectively. Work of lower quality will be rewarded with grades of **D** or **F**.

In order to translate these qualitative guidelines into quantifiable measures of performance, letter grades for the course will be assigned on the following scale based on the percentage of possible points earned:

- **90-100%**  A
- **80-89%**  B
- **70-79%**  C
- **60-69%**  D
- **Below 60%**  F

Final grades are computed from your scores for three cumulative exams. Scores for these items are weighted according to the following scale:

- **Exam 1**  30%
- **Exam 2**  35%
- **Exam 3**  35%

I will distribute an information sheet one week prior to each exam with information about the exam format and some guidance about topics to emphasize as you review. I will use the class period prior to each exam to answer questions that have arisen during your exam preparations.
Attendance and Make-Up Policies

Attendance *per se* is not part of this course's grading scheme. Students who are unable to attend class when an exam is given may take a makeup exam for absences excused by University rule (http://student-rules.tamu.edu/rule07). Students should make every effort to notify me in advance of an expected absence (e.g. missing an exam to observe a religious holiday) from exams and to notify me of reasons for an unexpected absence (e.g. illness) from an exam in a timely fashion.

Students with Disabilities (Americans with Disabilities Act)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Disabilities Services in Room B118 of Cain Hall, or call 845-1687. For additional information visit http://disability.tamu.edu.

Academic Integrity

The Aggie Honor Code states, "An Aggie does not lie, cheat or steal, or tolerate those who do."

Students should be aware of and take seriously their obligations to perform original academic work, give appropriate credit to sources, and to use only authorized aid and materials. Please review the Aggie Honor Code and rules regarding academic conduct. These may be found online at http://aggiehonor.tamu.edu.

Classroom Conduct

Though it should go without saying, I expect students to behave appropriately in the classroom. At a minimum, this means that you should be attentive during lectures and refrain from distracting behavior. I also expect students to turn cell phones off or set them to silent during class.

Also, this course relies on student discussions. While these interactions may reveal deep disagreements about important questions of policy and politics, I expect that all students will engage in these debates and discussions in a manner that is consistent with the Student Code of Conduct and basic manners. At a minimum, this implies that you should treat one another with respect, avoid interrupting someone who is speaking, and refrain from personal attacks or impugning someone's motives.
Course Schedule

Week 1: Politics

Course Syllabus

(E-Reserve)

Week 2: The State of Nature and Voluntary Cooperation and Exchange

Thomas Hobbes, *Leviathan*, Chapter XIII
http://bit.ly/1UVxJWO

John Locke, *The Two Treatises of Civil Government* (Book 2), Chapters II and III
http://bit.ly/1fsdUGy

Adam Smith, *The Wealth of Nations*, Chapters I and II
http://bit.ly/1WHmD9U

Week 3: Obstacles to Cooperation and Collective Action

Garrett Hardin, *The Tragedy of the Commons*
http://www.sciencemag.org/content/162/3859/1243.full

Elinor Ostrom, *Coping with Tragedies of the Commons*
http://hdl.handle.dlib.indiana.edu/hdl/bitstream/handle/10535/5876/Coping%20with%20tragedies%20of%20the%20commons.pdf

Michael Munger, *Orange Blossom Special: Externalities and the Coase Theorem*
http://www.econlib.org/library/Columns/y2008/Mungerbees.html

Week 4: Catch-Up and Exam 1

Week 5: The State and the Individual

Edmund Burke, *A Vindication of Natural Society*


Week 6: Power and Violence

Thucydides, *The Melian Dialogue*
http://lygdamus.com/resources/New%20PDFS/Melian.pdf
Charles Tilly, War Making and State Making as Organized Crime
http://bit.ly/1WVbTEK

Carl von Clausewitz, On War, Chapter 1
http://oll.libertyfund.org/titles/clausewitz-on-war-vol-1

Week 7: Authority and Legitimacy

Max Weber, The Three Pure Types of Legitimate Rule
(E-Reserve)

Tom R. Tyler, Why People Obey the Law, Chapters 1-4
http://www.psych.nyu.edu/tyler/lab/Chapters_1-4.pdf

Week 8: Justice and Liberty

John Rawls, A Theory of Justice, Chapter I
(E-Reserve)

Robert Nozick, Anarchy, State, and Utopia, Chapter 7
(E-Reserve)

Week 9: Catch-Up and Exam 2

Week 10: Democracy

Melissa Schwartzberg, What Did Democracy Really Mean in Athens? (Video)

Tom Christiano, Democracy

Week 11: Majority Rule and Institutions

Francis Glaton, Vox Populi

Anthony Downs, An Economic Theory of Democracy, Chapters III and IV
(E-Reserve)

Kenneth Arrow, A Difficulty in the Concept of Social Welfare
http://www.stat.uchicago.edu/~lekheng/meetings/mathofranking/ref/arrow.pdf

Week 12: Policy Systems and Policy-Making

David Easton, An Approach to the Analysis of Political Systems
http://www.jstor.org/stable/2008920
Week 13: Identities


Karl Marx, *The Communist Manifesto*, Chapter I
http://www.gutenberg.org/ebooks/61

Margaret Mead, *Sex and Temperament in Three Primitive Societies*
http://bit.ly/1No6OBQ

Ta-Nehisi Coates, *The Case for Reparations*
http://www.theatlantic.com/magazine/archive/2014/06/the-case-for-reparations/361681/

Week 14: Catch-Up and Exam 3

Please note: There is no additional exam given during the final exam period. I will use the scheduled final exam time period to supervise any remaining makeup exams.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments.

Form Instructions
1. Course request type: [✓] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by: (Department or Program Name): Department of Psychology
3. Course prefix, number and complete title of course: PSYC 484 Field Experiences

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
   a. Prerequisite(s): From: ____________________ To: ____________________
   b. Withdrawal (reason): ____________________
   c. Cross-list with: ____________________

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? [ ] Yes [✓] No

6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (C/RMD)

7. If this course will be stacked, please indicate the course number of the stacked course: ____________________

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ypr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   PSYC 484 Field Experiences Credits 3.73-Other Hours. Participation in an approved mental health, mental retardation, school, industrial or experimental setting; field experiences supervised by an appropriate professor within an area of student interest; course requirements vary with the setting, the supervising professor and the needs of the individual student. Prerequisites: PSYC 203 and PSYC 204; 12 hours of psychology; GPR of 2.5 or better in all psychology courses; approval of instructor; major in psychology.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PSYC 484 Field Experiences Credits 3.73-Other Hours. Participation in an approved mental health, mental retardation, school, industrial, or other approved setting; field experiences supervised by an appropriate professor within an area of student interest; course requirements vary with the setting, the supervising professor and the needs of the individual student. May be repeated for credit. Prerequisites: PSYC 203 and PSYC 204; 12 hours of psychology; GPR of 2.5 or better in all psychology courses; approval of instructor; major in psychology.

10. a. As currently in course inventory:

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   Approval recommended by: ____________________
   Department Head or Program Chair (Type Name & Sign) ____________________ Date 7/15/15
   Chair, College Review Committee ____________________ Date 10-19-15
   Dean of College ____________________ Date 10-20-15
   Chair, GC or UCC ____________________ Date 10-20-15

   Submitted to Coordinating Board by:__________________________
   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14

RECEIVED CURRICULAR SERVICES OCT 23 2015
Supporting Statement for Changes to PSYC 484

- The change to permit repeated credit for this field experience is consistent with the inclusion of this high impact experience in our undergraduate curriculum.
- The change to permit varied credit hours for this field experience is also consistent with the inclusion of the high impact experience, and would permit students to take part in internships that vary in the number of required hours per week.
PSYC 484. Field Experiences

Fall 2016

Meeting days/times: TBD  •  Meeting location: TBD

Instructor: Mindy Bergman, PhD
Office Phone: 979-845-9707
Email: mindybergman@tamu.edu
Office: 240 Psychology Building
Mailbox: 236 Psychology Building
Office Hours: Wednesdays 12:00 – 1:00 pm

Course description: Participation in an approved mental health, mental retardation, school, industrial, or other approved setting; field experiences supervised by an appropriate professor within an area of student interest; course requirements vary with the setting, the supervising professor and the needs of the individual student. (Note: This course may be repeated.)

Prerequisites: PSYC 203 and PSYC 204; 12 hours of psychology; GPR of 2.5 or better in all psychology courses; approval of instructor; major in psychology.

Learning outcomes: By the end of this course, a successful student should be able to:

- Apply psychology knowledge and concepts in real world situations
- Demonstrate skills and competencies required in the workplace
- Summarize self-directed learning experiences

Required materials: None

Grading policies: PSYC 484 is graded S/U. To earn a satisfactory grade in the course, the student must at least:

- Receive a satisfactory attendance report from the internship site supervisor
- Receive satisfactory reports at midterm and final evaluation from the internship site supervisor
- Complete the learning agreement with the internship site supervisor and turn it in to the instructor
- Complete the three self-assessment assignments and turn them in to the instructor

This is an internship: Keep in mind that every workplace has its own set of rules and expectations, from dress code to timeliness to attendance. Every workplace also has a distinct culture, setting informal expectations of how a worker should behave. It is part of your internship experience to understand and follow these rules and expectations. Your supervisor and coworkers will be the best resource for this information. Your instructor is also available to provide advice as needed.

Attendance and make-up policies: Your academic work for this internship is expected to be timely and complete by the posted deadlines. Make-up work for this course will be arranged in case of university-excusable absences that have appropriate documentation. Please refer to TAMU Student Rule 7 for more information (http://student-rules.tamu.edu/rule07).
Keep in mind that your internship site will have its own attendance expectations and policies. It is part of your internship experience (i.e., “demonstrate skills and competencies required in the workplace”) to manage the attendance policy and expectations of your internship site.

**Americans with Disabilities Act (ADA) Policy Statement:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic integrity statement and policy:** The Texas A&M honor code: An Aggie does not lie, cheat, or steal, or tolerate those who do. Visit the Honor Office for more information ([http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)).

### Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Internship Experience</th>
<th>Assignment due by Sunday at 11:59 pm (note: Weeks are Monday – Sunday)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Start internship experience</td>
<td>Beginning of internship self-assessment</td>
</tr>
<tr>
<td>2</td>
<td>Internship experience</td>
<td>Learning agreement: An agreement between you and your supervisor outlining the learning objectives, activities, and organizational structure of your internship setting. Discuss your professional goals and learning expectations with your supervisor. (<strong>This can be completed prior to the internship, but MUST be completed by the end of the second week of the internship.</strong>)</td>
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<td>3</td>
<td>Internship experience</td>
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</tr>
<tr>
<td>4</td>
<td>Internship experience</td>
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<tr>
<td>5</td>
<td>Internship experience</td>
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<td>6</td>
<td>Internship experience</td>
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<tr>
<td>7</td>
<td>Internship experience</td>
<td>Midterm evaluation: Completed by your supervisor to evaluate your performance in pursuing the learning outcomes articulated in the learning agreement and give constructive feedback.</td>
</tr>
<tr>
<td>8</td>
<td>Internship experience</td>
<td>Midterm self-assessment</td>
</tr>
<tr>
<td>9</td>
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<td>Internship experience</td>
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<td>14</td>
<td>Internship experience</td>
<td>Final evaluation: Completed by supervisor to evaluate your performance in the pursuit of the learning outcomes articulated in the learning agreement and give constructive feedback</td>
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<tr>
<td>15</td>
<td>Internship experience</td>
<td>Final self-assessment</td>
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Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate + Graduate + Professional  
* Submit original form and attachments  

Form Instructions 
1. Course request type:  
   ☒ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM) 
2. Request submitted by (Department or Program Name):  Religious Studies 
3. Course prefix, number and complete title of course:  RELS 365 History of Religion in America to 1860  

4. Change requested 
   a. Prerequisite(s): From:  To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  HIST 365  
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title. 
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus. 

5. Is this an existing core curriculum course?  
   ☐ Yes  ☒ No 

6. If grade type is changing for existing course, indicate the new grade type:  ☐ Grade  ☐ S/U  ☐ P/F (CLMD) 

7. If this course will be stacked, please indicate the course number of the stacked course:  

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://ppr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).  


10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):  History of Religion in America to 1860: Religion in North America from colonial beginnings to eve of Civil War; Relations between European Christianity, Native Americans, and African Americans; religious pluralism, reform movements, social and political change. Crosslisted with RELS 365. Prerequisite: Junior or senior classification. 

11. a. As currently in course inventory:  

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<th>Title (excluding punctuation)</th>
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b. Change to:  

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<td>3</td>
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</table>

Approval recommended by:  
David J. Vaught, Head, History, 9/30/15  
Donnatee Dos, Director, RELS, 9/30/2015  
Chair, College Review Committee, 10/21/15  
Dean of College, 10/21/15  
Chair, GC or UCC, 10/23/2015  

Submitted to Coordinating Board by:  
Associate Director, Curricular Services  
Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Memorandum
To: Undergraduate Instructional Committee
From: David J. Vaught, Head, Department of History
       Donnalee Dox, Director, Religious Studies
Re: RATIONALE for Change in Course Description for HIST/RELS 365
Date: September 30, 2015

We propose changing the current course description for HIST/RELS 365 “History of Religion in America to 1860,” from “Religion in America from European origins through New England Puritanism, U. S. Constitutional issues, immigration, revivalism and the Civil War; relationship between dissenters, utopians and visionaries versus mainstream counterparts,” to “Religion in North America from colonial beginnings to eve of Civil War. Relations between European Christianity, Native Americans, and African Americans; religious pluralism, reform movements, social and political change. Crosslisted with RELS 365. Prerequisite: Junior or senior classification. “The proposed description change reflects shifts in scholarship over the past 20 years that explicitly address the multiple groups and varied strands of religiosity and spirituality that informed the creation and transformation of religious expression in North America during the colonial, early national, and national periods.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
* Submit original form and attachments *

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (D.D.S., M.D., J.D., PharmD, D.V.M)
2. Request submitted by (Department or Program Name): Health and Kinesiology
3. Course prefix, number and complete title of course: SPMT 482 Seminar

   Attach a brief supporting statement for changes made to items 4a thru 4d and 10 below.

   Change requested
   a. Prerequisite(s): From: __________________ To: __________________
   b. Withdrawal (reason):
   c. Cross-list with: __________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description: SPMT 482 Seminar - Acquaint students with current research and the research process in their chosen field of study (sport management). May be taken 4 times for credit.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): SPMT 482 Professional Writing Seminar - Acquaint students with a primary means of communicating contemporary research in sport management; extensive readings, intensive writings, and an oral presentation designed to complement the curriculum in sport management by introducing the application of sport management research to organizational decision making. (Not repeatable)
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): SPMT 482 Professional Writing Seminar - Acquaint students with a primary means of communicating contemporary research in sport management; extensive readings, intensive writings, and an oral presentation designed to complement the curriculum in sport management by introducing the application of sport management research to organizational decision making. (Not repeatable)

11. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation)
   SPMT   | 482      | SEMINAR
   Lec.   | Lab      | Other   | SCH | CIP and Fund Code | Admin. Unit | EIC Code | Level |
   1.00  | 0.00     | 0.00     | 1.00 | 3105040016        | 1402        | 0 0 3 6 3 2 | 4     

   b. Change to:

   Prefix | Course # | Title (excluding punctuation)
   SPMT   | 482      | PROFESSIONAL WRITING SEMINAR
   Lec.   | Lab      | Other   | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | EIC Code |
   1.00  | 0.00     | 0.00     | 1.00 | 3105040016        | 1402        | 16 - 17    | 0 0 3 6 3 2 |

   Approval recommended by:
   Richard Kreider
   Department Head or Program Chair (Type Name & Sign) Date
   Chris Cherry
   Chair, College Review Committee Date
   Chris Cherry
   Dean of College Date
   Tim Scott
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services
   Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

Form Instructions
1. Course request type:  ☒ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DM)  
2. Request submitted by (Department or Program Name):  Women's and Gender Studies Program
3. Course prefix, number and complete title of course:  WGST 477 Women in Modern European History
4. Change requested
   a. Prerequisite(s): From:  To:  
   c. Cross-list with:  HIST 477  
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete Item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  ☐ Yes  ☒ No
6. If grade type is changing for existing course, indicate the new grade type:  ☐ Grade  ☒ S/U  ☐ Pass/Fail (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I certify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://future.tamu.edu/resources/export-control/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description: Women in Modern European History: Women in Europe from the 18th century to the present: women's contributions to their societies; realities of their daily lives and their responses; perceptions of women; role of institutions in defining women's roles; significance for women of industrialization, revolution, warfare, scientific discoveries; interaction of class, race and gender.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Women and Gender in Modern European History: Women in Europe from the 18th century to the present: women's contributions to their societies; realities of their daily lives and their responses; perceptions of women; role of institutions in defining women's roles; significance for women of industrialization, revolution, warfare, scientific discoveries; interaction of class, race and gender.

10. b. As currently in course inventory:

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<td>WGST</td>
<td>477</td>
<td>WOMEN IN MOD EUR HIST</td>
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<td>5401010001</td>
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<td>16 - 17 0 0 3 6 3 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Approval recommended by:

David J. Vaught, Head, History, 9/30/15
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee
Chair, GC or UCC Date

Marian Eide, Director, WGST, 10/1/2015 (If cross-listed course)
Department Head or Program Chair (Type Name & Sign) Date
Dean of College

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8801 or sandra.williams@tamu.edu  
Curricular Services – 08/14
Memorandum

To: Undergraduate Instructional Committee

From: David J. Vaught, Head, Department of History
Marian Eide, Director, Women's and Gender Studies Program

Re: RATIONALE for Change in Course Title for HIST/WGST 477

Date: September 30, 2015

We propose changing the current course title for HIST/WGST 477 from "Women in Modern European History" to "Women and Gender in Modern European History." The proposed title change reflects current scholarly interests in the historical construction of the gender category of "woman" in relation to that of "man" as well as the political, social, economic, and cultural dimensions of women's historical experiences. The title change also more explicitly addresses the topics outlined in the course description.
Eide, Marian
To: Rebecca Schloss
Re: Proposed title change for HIST/WGST 477

Are you kidding! I'm thrilled to endorse. Thanks for doing all the labor.

M.

From: <Schloss>, Rebecca H <rhschloss@tamu.edu>
Date: Thursday, October 1, 2015 at 3:51 PM
To: Marian Eide <meide@tamu.edu>
Subject: Proposed title change for HIST/WGST 477

Dear Marian:

I hope this finds you well. I know this is the 10th hour before our October UIC meeting but the history department would like to propose a course title change to HIST/WGST 477 for the 2016-2017 catalog. Our rationale is as follows:

We propose changing the current course title for HIST/WGST 477 from “Women in Modern European History” to “Women and Gender in Modern European History.” The proposed title change reflects current scholarly interests in the historical construction of the gender category of “woman” in relation to that of “man” as well as the political, social, economic, and cultural dimensions of women’s historical experiences. The title change also more explicitly addresses the topics outlined in the course description.

Does WGST support this course title change for HIST/WGST 477? If so, I’m happy to send you a copy of the two course change forms (one for HIST 477 and one for WGST 477) as well as the ‘rationale memo’. If you could sign all three documents where appropriate and return them to me, I’ll make certain they get to Sherry Higginbotham by Monday morning (October 5th) so they can be considered at the October UIC meeting.

Thanks,

Rebecca

Rebecca Hartkopf Schloss
Associate Professor & Director of Undergraduate Studies
Department of History
Texas A & M University
MS 4236
College Station, TX 77843-4236
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:  ✓ Undergraduate  ❏ Graduate  ❏ First Professional (DDS, MD, JD, PharmD, D/V/M)
2. Request submitted by (Department or Program Name): Department of Public Health Studies
3. Course prefix, number and complete title of course:  PHLT 302 Foundations of Public Health

4. Change requested
   a. Prerequisite(s): From: Public Health major, junior or senior classification, or approval of instructor To: Public Health major or minor, junior or senior classification, or approval of instructor
   b. Withdrawal (reason): 
   c. Cross-list with: 

   Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  ❏ Yes  ✓ No

6. If grade type is changing for existing course, indicate the new grade type:  ✓ Grade

7. If this course will be stacked. please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. As currently in course inventory:

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b. Change to:

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Approval recommended by:
Gilbert Ramirez  
Department Head or Program Chair (Type Name & Sign)  
Date  

Ranjana Mehta  
Chair, College Review Committee  
Date  

Jay Maddock  
Dean of College  
Date  

Submitted to Coordinating Board by:
Chair, GC or UCC  
Date  

Effective Date  

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
The attached course change request for PHLT 302, 303, 305 and 330 is to change the prerequisites from “Public Health major, junior or senior classification, or approval of instructor” to “Public Health major and minors”.

Our minor program is brand new and was just approved by the President this past Spring. The minor students need to take this course and therefore the perquisite should include the minor students. The junior or senior classification was removed as the minor students may not be junior or seniors while completing minor.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ▪ Graduate ▪ Professional
Submit original form and attachments

Form Instructions
1. Course request type:  [✓] Undergraduate  [ ] Graduate  [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Public Health Studies
3. Course prefix, number and complete title of course: PHLT 303 Social Context of Population Health

Attaching a brief supporting statement for changes made to items 4a thru 4d, and 10 below:

4. Change requested
   a. Prerequisite(s): From: [ ] Public Health major, junior or senior classification, or approval of instructor
      To: [ ] Public Health major or minor, junior or senior classification, or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9. Enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?  [ ✓ ] Yes  [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade  [ ] S/U  [ ] P/F (C,M,D)
7. If this course will be stacked, please indicate the course number of the stacked course:

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:
    
    Prefix  Course #  Title (excluding punctuation)
    PHLT  303  SOC CONTEXT POP HLTH

    Lecl. Lab Other SCH CIP and Fund Code  Admin. Unit  FICE Code  Level
    3.00  0.00  0.00  3.00  5122010014  2414  0  0  3  6  3  2  3

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)

   Lecl. Lab Other SCH CIP and Fund Code  Admin. Unit  Aca1 Year  FICE Code  Level

   Approval recommended by: [ ✓ ]
   [ ]

   Department Head or Program Chair (Type Name & Sign)  Date

   Department Head or Program Chair (Type Name & Sign)  Date
   (if cross-listed course)

   Submitted to Coordinating Board by: Chair, GC or UCC  Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: □ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Public Health Studies
3. Course prefix, number and complete title of course: PHLT 305 Epidemiology in Public Health

Attach a brief supporting statement for changes made to items 4 through 10 below.

4. Change requested:
   a. Prerequisite(s): From: Public Health major, junior or senior classification, or approval of instructor
   b. Withdrawal (reason): To: Public Health major or minor, junior or senior classification, or approval of instructor
   c. Cross-list with:

Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes  □ No

6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (C/B/F)

7. If this course will be stacked, please indicate the course number of the stacked course:

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vp.research/controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
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<th>Title (excluding punctuation)</th>
</tr>
</thead>
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<td>EPIDEMIOLOGY PUBLIC HEALTH</td>
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<th>Admin. Unit</th>
<th>HICE Code</th>
<th>Level</th>
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b. Change to:

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<th>Course #</th>
<th>Title (excluding punctuation)</th>
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</thead>
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<th>Lect.</th>
<th>Lab</th>
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<th>SCH</th>
<th>CIP and Fund Code</th>
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<td>3</td>
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</table>

Approval recommended by:

Gilbert Ramirez 20 Oct 15
Department Head or Program Chair (Type Name & Sign) Date

Ranjana Mehta 10/23/15
Chair, College Review Committee Date

Jay Maddock 10-23-15
Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8701 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVH)
2. Request submitted by (Department or Program Name): Department of Public Health Studies
3. Course prefix, number and complete title of course: PHLT 330 The Environment and Public Health

4. Change requested
   a. Prerequisite(s): From: Public Health major, junior or senior classification, or approval of instructor
   b. Withdrawal (reason): ________________________________
   c. Cross-list with: ________________________________

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:

   I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 30 words):

11. a. As currently in course inventory:

   Prefix  | Course # | Title (excluding punctuation) | Lec. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
   PHLT    | 330      | ENV & PUBLIC HEALTH            | 3.00 | 0.00| 0.00 | 3.00 | 5122010014       | 2414        | 0 | 0 | 3 | 3 | 6 | 3 | 2 |

   b. Change to:

   Prefix  | Course # | Title (excluding punctuation) |
   | | |

   Approval recommended by:
   Gilbert Ramirez 20 Oct 15  
   Department Head or Program Chair (Type Name & Sign) Date

   Ranjana Mehta 10/23/15  
   Chair, College Review Committee Date

   Jay Maddock 10/23/15  
   Dean of College Date

   Department Head or Program Chair (Type Name & Sign)
   (if cross-listed course)

   Submitted to Coordinating Board by:
   Chair, GC or UCC Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
**Form Instructions**

1. Course request type:  
   - [X] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name):  
   Department of Public Health Studies

3. Course prefix, number and complete title of course:  
   PHLT 445 Population Health Culminating Experience

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

   Cross-listed courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. 
   f. Complete syllabus.

5. Is this an existing core curriculum course?
   - [ ] Yes
   - [X] No

6. If grade type is changing for existing course, indicate the new grade type:
   - [X] Grade
   - [ ] S/U
   - [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   - [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete course title and current catalog course description:
   PHLT 445 Population Health Culminating Experience

   Combines knowledge and skills related to public health experience and coursework to address public health issues, process of developing, implementing, and evaluating public health interventions; role assignment and responsibilities in group assignments and presentations.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PHLT 445 Applications of Public Health

   Combines knowledge and skills related to public health experience and coursework to address public health issues, process of developing, implementing, and evaluating public health interventions; role assignment and responsibilities in group assignments and presentations.

10. a. As currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | PHLT   | 445      | POP HEALTH CULMINATING EXP    |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    |-------|-----|-------|-----|-------------------|-------------|-----------|-------|
    | 3.00  | 0.00| 0.00  | 3.00| 5122010014        | 2414        | [ ] 3 3 2 | [ ]   |

    b. Change to:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | PHLT   | 445      | APPLICATIONS PUBLIC HEALTH    |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code |
    |-------|-----|-------|-----|-------------------|-------------|------------|-----------|
    | 3.00  | 0.00| 0.00  | 3.00| 5122010014        | 2414        | 16         | [ ] 3 6 3 | 2         |

   Approval recommended by:  
   - Gilbert Ramirez  
   - Jay Maddock

   Chair, College Review Committee  
   Chair, GC or UCC

   Department Head or Program Chair (Type Name & Sign) Date  
   Date  

   Date  

   Effective Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

   Curricular Services – 08/14
The name change is needed to better the integrative nature of applying public health concepts.
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS
BS IN BIOCHEMISTRY
Texas A&M University  
Request for a Change in Curriculum  
Undergraduate ♦ Graduate ♦ Professional

1. Program request type:  
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  
   ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  
   Department of Biochemistry and Biophysics

4. Program Designation and Name  
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   B.S. in Biochemistry

5. Brief description of change:  
   Change in student credit hours (SCH) for GENE 302 from 4 SCH to 3 SCH. Addition of GENE 312 to degree plan. Elimination of BICH 107 (2 SCH) from degree plan and addition of BICH 101 (1 SCH). Addition of 1 SCH to the general electives area required for completion of degree.

6. Rationale for change:  
   In the 2015-2016 catalog, the lab and lecture portions of GENE 302 (4 SCH) were dissociated, changing GENE 302 to a lecture course (3 SCH) and creating a new laboratory course GENE 312 (1 SCH).

   BICH 107 is a 2 SCH course currently taken by all freshmen BICH majors. The broad purpose of this course is to help freshmen understand what the major is all about and give them the opportunity to form relationships with other BICH and GENE majors. In recent years, it has become apparent that only 1 SCH is needed to accomplish this mission. The proposed changes would alter the name, number and SCH and would be cross-listed with GENE 101. With the loss of 1 SCH from the degree plan from BICH 101, the total SCH required for completion of the BS in Biochemistry will remain at 128 by adding 1 SCH to the general electives area.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes  ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes  ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐ Yes  ☑ No
   b. If yes, degree program hours will change  from:  to:  

8. c. If yes, is the Texas Higher Education Coordinating Board form attached?  ☐ Yes  ☑ No

   http://www.thechn.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  ☑ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:  
David Peterson  
Department Head or Program Chair (Type Name & Sign)  Date  9/26/15

Kim Dooley  
Dean of College  Date  10/2/15

Chair, College Review Committee  Date  10/1/15

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or samuel.williams@tamu.edu.
Curricular Services – 04/14
## B.S. IN BIOCHEMISTRY

### FRESHMAN YEAR

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<td>CHEM 102</td>
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**Total = 120 Hours**

### NOTES:

1. To be selected from the University Core Curriculum. Of the 21 hours shown as University Core Curriculum electives, 3 must be from language, philosophy and culture, 3 from creative arts, 3 from social and behavioral sciences, 6 from American history, 6 from POLS 206 and 207. The required 6 hours from international and cultural diversity courses, 6 from University Core Curriculum electives, and 3 from American history requirements if they are also on the approved list of international and cultural diversity courses. (see page 20)
2. Select from MATH 151 or 171, MATH 152 or 172 and MATH 221 or 251 or 253.
3. Often used for a minor degree. Students intending to pursue an advanced degree in biochemistry are strongly encouraged to use some free electives for additional upper division courses in BICH, GENE, BIOL, CHEM, MATH or STAT.
4. Before registration in BICH 440, students must have attained a grade of C or better in each of the following courses: CHEM 227, CHEM 237, CHEM 228, CHEM 238.
5. Select from BICH 414 or 432.
6. Select from BIOL 351 or BIOL 413 and 423
7. Hours to be selected from any 400-level course in BICH with approval of student's academic advisor. BICH 414, BICH 432, or BICH 491 may not be used to satisfy this requirement.
# Biochemistry Degree Plan

## Major Coursework (C or Better) - 28 hours
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## Supporting Coursework - 29 hours
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## Life & Physical Sciences - 16 hours
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## Electives - 12 hours
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## **Language, Philosophy & Culture - 3 hours**
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## **Creative Arts - 3 hours**
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## **Social and Behavioral Sciences - 3 hours**
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## American HIST and GOVT/POLS - 12 hours
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<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST___</td>
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<tr>
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<td>3</td>
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<tr>
<td>POLS 206</td>
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<tr>
<td>POLS 207</td>
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</table>

## **International and Cultural Diversity - 6 hours**
<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Taken</th>
<th>Hours</th>
<th>Grade</th>
</tr>
</thead>
</table>

H.S. Foreign Language (2 years) ________

*has alternative courses  **courses can overlap with ICD
***if courses do not overlap then courses come from electives  ^ Must attain a grade of C or Better to get credit
**KEY:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BICH 101</td>
<td>Perspectives in Biochemistry and Genetics (cross-listed with GENE 101)</td>
</tr>
<tr>
<td>BICH 404</td>
<td>Biochemical Calculations</td>
</tr>
<tr>
<td>BICH 414</td>
<td>Biochemical Techniques (SPRING ONLY) (Writing Intensive)</td>
</tr>
<tr>
<td>BICH 431</td>
<td>Molecular Genetics (cross-listed with GENE 431)</td>
</tr>
<tr>
<td>BICH 440</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BICH 441</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>BICH 491</td>
<td>Research</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>Introductory Biology I</td>
</tr>
<tr>
<td>BIOL 112</td>
<td>Introductory Biology II</td>
</tr>
<tr>
<td>BIOL 351</td>
<td>Microbiology (Writing Intensive)</td>
</tr>
<tr>
<td>CHEM 101/111</td>
<td>Fundamentals of Chemistry I &amp; Lab</td>
</tr>
<tr>
<td>CHEM 102/112</td>
<td>Fundamentals of Chemistry II &amp; Lab</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>Organic Chemistry I &amp; Lab</td>
</tr>
<tr>
<td>CHEM 228/238</td>
<td>Organic Chemistry II &amp; Lab</td>
</tr>
<tr>
<td>CHEM 327</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHEM 328</td>
<td>Physical Chemistry II</td>
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<tr>
<td>ENGL 104</td>
<td>Composition &amp; Rhetoric</td>
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<tr>
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<td>Technical and Business Writing</td>
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<td>GENE 302</td>
<td>Principles of Genetics</td>
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<td>GENE 312</td>
<td>Comprehensive Genetics Lab</td>
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<tr>
<td>MATH 151</td>
<td>Engineering Math I (Calculus I)</td>
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<tr>
<td>MATH 152</td>
<td>Engineering Math II (Calculus II)</td>
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<td>MATH 251</td>
<td>Engineering Math III (Calculus III)</td>
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<td>PHYS 208</td>
<td>Electricity and Optics</td>
</tr>
<tr>
<td>POLS 206</td>
<td>American National Government</td>
</tr>
<tr>
<td>POLS 207</td>
<td>State &amp; Local Government</td>
</tr>
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</table>

**American History Electives:** Select from HIST 105, 106, or other acceptable American History courses. May use 3 hours of Texas History for this requirement; may overlap with ICD (i.e. HIST 258...others available).

**Creative Arts Elective:** Refer to core curriculum list; may overlap with ICD (i.e. ARTS 150; ENDS 101; THAR 201...others available).

**Elective:** Any course not used elsewhere in the major except lower-level and non-major courses.

**ICD Elective:** International & Cultural Diversity; refer to core curriculum list and try to overlap when possible to keep free electives open.

* BICH 414 alternatives: BICH 432; GENE 432
  * MATH 151 alternative: MATH 171
* BIOL 351 alternative: BIOL 413 and 423
  * MATH 152 alternative: MATH 172
* MATH 251 alternatives: MATH 221, 253

Electives cannot be BICH 303; BICH 410-412; ENGL 100-102; MATH 100-104; 130-150, 230

Two courses in the degree plan must be a Writing Intensive course designated by the department in the schedule of classes: Approved courses: BICH 491, see advisor for additional courses.
Biochemistry - BS

The undergraduate biochemistry curriculum is designed to provide a solid background in chemistry and the physical sciences, as well as in the biological sciences. Consequently, biochemistry is an especially versatile major giving undergraduates many options when they complete their BS degree. A biochemistry major provides a strong background for entering graduate school in a variety of fields, and the majority of biochemistry majors go on to graduate school or to professional schools such as medicine, veterinary medicine or dentistry. Biochemistry majors excel in biomedical professional schools because of their strong background in the basic sciences. In addition, a wide variety of job opportunities is open to biochemistry majors with a BS degree. Many find rewarding careers working in laboratories as research scientists, forensic scientists and technicians in clinical, governmental and university laboratories. Biochemists are also employed by diverse companies in the chemical, pharmaceutical, agricultural, food and scientific equipment industries.

 Majors in Biochemistry must make a grade of C or better in CHEM 227, CHEM 237, CHEM 228 and CHEM 238 before registration in BICH 440. In addition, majors in Biochemistry must make a grade of C or better in all major coursework used to satisfy the degree plan.

Program Requirements

<table>
<thead>
<tr>
<th>First Year</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>BICH 101 Perspectives in Biochemistry and Genetics</td>
<td>3</td>
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<tr>
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<tr>
<td>CHEM 101</td>
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<td>CHEM 111</td>
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<td>ENGL 104</td>
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<td>BIOL 112</td>
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<tr>
<td>BICH 404</td>
<td>2</td>
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<tr>
<td>BICH 440</td>
<td>3</td>
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<tr>
<td>CHEM 327</td>
<td>3</td>
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<td>GENE 302</td>
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<td>GENE 312</td>
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<thead>
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<td>BICH 431/GENE</td>
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<td>BICH 491</td>
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<td>Select one of the following:</td>
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<td>BIOL 431</td>
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<td>BIOL 423</td>
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<td>Select one of the following:</td>
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<tr>
<td>MATH 251 Engineering Mathematics III</td>
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<td>MATH 221 Several Variable Calculus</td>
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<tr>
<td>MATH 253 Engineering Mathematics III</td>
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<td>PHYS 208 Electricity and Optics</td>
<td>4</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>BICH 491 Research</td>
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<td>Biochemistry elective</td>
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<td>CHEM 237 Organic Chemistry Laboratory</td>
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<tr>
<td>MATH 152 Engineering Mathematics II</td>
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<td>MATH 172 Calculus</td>
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<tr>
<td>PHYS 215 Mechanics</td>
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<td>University Core Curriculum</td>
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<table>
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<th>Term Semester Credit Hours</th>
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<tbody>
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<td>Spring</td>
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<tr>
<td>BICH 491 Research</td>
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<tr>
<td>Biochemistry elective</td>
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<td>University Core Curriculum</td>
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Free electives ¹  

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<tr>
<td>Total Semester Credit Hours:</td>
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</table>

¹ Often used for a minor degree. Students intending to pursue an advanced degree in biochemistry are strongly encouraged to use some free electives for additional upper division courses in BICH, BIOL, CHEM, GENE, MATH or STAT.

² To be selected from the University Core Curriculum. Of the 21 hours shown as University Core Curriculum electives, 3 must be from language, philosophy and culture, 3 from creative arts, 3 from social and behavioral sciences, 6 from American history, 6 from POLS 206 and POLS 207. The Graduation requirements include a requirement for 6 hours of International and Cultural Diversity courses which may be met by courses satisfying the language, philosophy and culture, creative arts, social and behavioral sciences, government/political science and American history requirements if they are also on the approved list of International and cultural diversity courses.

³ Before registration in BICH 440, students must have attained a grade of C or better in each of these courses: CHEM 227, CHEM 228, CHEM 237, CHEM 238.

⁴ Hours to be selected from any 400-level course in BICH with approval of student's academic advisor. BICH 414, BICH 432/GENE 432 or BICH 491 may not be used to satisfy this requirement.

Students must make a grade of C or better in all major coursework used to satisfy degree plan.
## Detail Requirements

### Information for Degree Evaluation

This is NOT an official evaluation.

### Program Evaluation

<table>
<thead>
<tr>
<th>Limitation</th>
<th>Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limitation</td>
<td>Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.</td>
</tr>
<tr>
<td>Program</td>
<td>BS BICH</td>
</tr>
<tr>
<td>Campus</td>
<td>College Station</td>
</tr>
<tr>
<td>College</td>
<td>Agriculture &amp; Life Sciences</td>
</tr>
<tr>
<td>Degree</td>
<td>Bachelor of Science</td>
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<tr>
<td>Level</td>
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<tr>
<td>Majors</td>
<td>Biochemistry</td>
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<td>Departments</td>
<td>Biochemistry &amp; Biophysics</td>
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<td>Fall 2015 - College Station</td>
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<tr>
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<td>Expected Graduation Date</td>
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<td>Minors</td>
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<tr>
<td>Concentrations</td>
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### Met Credits Courses

| Total Required | No | 120.000 |
| Program GPA    | Yes | 0.00    |
| Overall GPA    | No  | 2.00    |

### Other Course Information

Transfer: 0.00

This is NOT an official evaluation.

### Area: Major Coursework (28.000 credits) - Not Met

| Description                      | Must make a grade of 'C' in all major coursework. |

### Met

<table>
<thead>
<tr>
<th>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Grade Source</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. BICH 301</td>
</tr>
<tr>
<td>No</td>
<td>B. BICH 404</td>
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<tr>
<td>No</td>
<td>C. BICH 440</td>
</tr>
<tr>
<td>No</td>
<td>D. BICH 441</td>
</tr>
<tr>
<td>No</td>
<td>E. Laboratory Reqmt 2hrs</td>
</tr>
<tr>
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<td>Select from BICH 414, 432.</td>
</tr>
<tr>
<td>No</td>
<td>F. BICH 431</td>
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<tr>
<td>No</td>
<td>G. GENE 302</td>
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<td>BICH Reqmt 6hrs</td>
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<td></td>
<td>Select from BICH 400-409 (exclude BICH 414, 432, 491).</td>
</tr>
<tr>
<td>No</td>
<td>H. Gene 312</td>
</tr>
<tr>
<td></td>
<td>Take BICH 491.</td>
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unofficial evaluation

### Area Supporting Coursework (29.000 credits) - Not Met

| No | A. BIOL 111 |
| No | B. BIOL 112 |
| No | C. Microbiology Reqmt 4hrs |

Total Credits and GPA 0.000 .00
unofficial evaluation

**Area Communication (6.000 credits) - Not Met**

<table>
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<tr>
<td>No</td>
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<td>F.</td>
<td>CHEM 228</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Mathematics (8.000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Life and Physical Sciences (16.000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Language, Philosophy & Culture (3.000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

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**Description**: A minimum GPR of 2.000 is required in all major field of studies courses.

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**Total Credits and GPA**: 0.000 .00

unofficial evaluation

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Print
1. Change in student credit hours for GENE 302 (Principles of Genetics) from 4 SCH to 3 SCH
   Addition of GENE 312 (Comprehensive Genetics Laboratory) to degree plan

   In the 2015-2016 catalog, the lab and lecture portions of GENE 302 (4 SCH) were dissociated,
   changing GENE 302 to a lecture course (3 SCH) and creating a new laboratory course GENE
   312 (1 SCH). The proposed changes in the BICH degree plan reflect this change in the GENE
   course structure.

2. Elimination of BICH 107 (Horizons in Biochemistry; 2 SCH) from degree plan
   Addition of BICH 101 (Perspectives in Biochemistry and Genetics; 1 SCH) to degree plan

   BICH 107 is a 2 SCH course currently taken by all freshmen BICH majors. The broad
   purpose of this course is to help freshmen understand what the major is all about and
   give them the opportunity to form relationships with other BICH and GENE majors. In
   recent years it has become apparent that only 1 SCH is needed to accomplish this
   mission. The proposed changes would alter the name, number, and SCH of BICH 107
   to create BICH 101 (Perspectives in Biochemistry and Genetics; 1 SCH), which would
   be cross-listed with GENE 101.

3. Addition of 1 SCH to the Free Electives required for completion of the degree

   With the loss of 1 SCH from the degree plan in proposed Item 2, the total SCH required
   for completion of the BS in Biochemistry will remain at 120 by adding 1 SCH to Free
   Electives. Having 12 SCH available makes much more sense than the current 11, as it
   fits better with typical lecture courses of 3 SCH.
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS
BS IN GENETICS
Texas A&M University  
Request for a Change in Curriculum  
Undergraduate ◦ Graduate ◦ Professional

1. Program request type:  
☑ Undergraduate  ☐ Graduate  ☐ First Professional (ex., DVM, JD, MD, etc.)  
☑ Degree Program  ☐ Minor  ☐ Certificate

2. Request change for:

3. Request submitted by (Department or Program Name):  
Department of Biochemistry and Biophysics

4. Program Designation and Name  
(e.g., B.A. in History, Minor in History, Certificate in European Union):  
B.S. in Genetics

5. Brief description of change:  
Change in student credit hours (SCH) for GENE 302 from 4 SCH to 3 SCH. Addition of GENE 312 to degree plan. Elimination for GENE 105 (2 SCH) from degree plan and addition of GENE 101 (1 SCH). Addition of 1 SCH to the general electives area required for completion of degree.

6. Rationale for change:
In the 2015-2016 catalog, the lab and lecture portions of GENE 302 (4 SCH) were dissociated, changing GENE 302 to a lecture course (3 SCH) and creating a new laboratory course GENE 312 (1 SCH).

GENE 105 is a 2 SCH course currently taken by all freshmen GENE majors. The broad purpose of this course is to help freshmen understand what the major is all about and give them the opportunity to form relationships with other BICH and GENE majors. In recent years, it has become apparent that only 1 SCH is needed to accomplish this mission. The proposed changes would alter the name, number and SCH and would be cross-listed with BICH 101. With the loss of 1 SCH from the degree plan from GENE 101, the total SCH required for completion of the BS in Genetics will remain at 120 by adding 1 SCH to the general electives area.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  
☑ Yes  ☐ No

b. Current catalog curriculum with handwritten edits attached.  
☑ Yes  ☐ No

c. Current Howdy degree evaluation with handwritten edits attached.  
☑ Yes  ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
☐ Yes  ☑ No

b. If yes, degree program hours will change from:  
□ to:  

9. If proposed changes affect other unit(s), are letters of support attached?  
☐ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

David Peterson  
Department Head or Program Chair (Type Name & Sign)  
Date  
9/22/15

Kim Dooley  
Dean of College  
Date  
10/2/15

Chair, College Review Committee  
Date  
10/1/15

Chair, GC or UCC  
Date  
OCT 05 2015

Questions regarding this form should be directed to Curricular Services at 845-8201 or sangha-williams@tamu.edu.  
Curricular Services – 04/14
## B.S. IN GENETICS

### FRESHMAN YEAR

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### SOPHOMORE YEAR

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### JUNIOR YEAR

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### SENIOR YEAR

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**Total = 120 Hours**

### NOTES:

1. To be selected from the University Core Curriculum. Of the 21 hours shown as University Core Curriculum electives, 3 must be from language, philosophy, and culture, 3 from creative arts, 3 from social and behavioral sciences, 6 from American history, 6 from POLS 206 and 207. The required 6 hours from international and cultural diversity may be met by course satisfying the language, philosophy, and culture, creative arts, social, and behavioral sciences, and the American history requirements if they are also on the approved list of international and cultural diversity courses. (see page 20)
2. Select from MATH 151 or 171, and MATH 152 or 172.
3. Select from BIOL 351 or BIOL 413 and 423
4. Before registration in BICH 440, students must have attained a grade of C or better in each of these courses: CHEM 227, CHEM 237, CHEM 228, CHEM 238.
5. Select from GENE 432 or BIOL 414.
6. Often used for a minor degree. Students intending to pursue an advance degree in genetics are strongly encouraged to use some free electives for additional upper division courses in GENE, BICH, BIOL, CHEM, MATH or STAT.
7. Hours to be selected from any 400-level course in GENE with approval of student’s academic advisor. GENE 432 or GENE 491 may not be used to satisfy this requirement.
# Genetics Degree Plan

## Major Coursework (C or Better) -31 hours

<table>
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<th>Semester Taken</th>
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## Supporting Coursework -26 hours

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## Life & Physical Sciences -16 hours

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<td>CHEM 102</td>
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## Mathematics -8 hours

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## **International and Cultural Diversity -6 hours

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## Electives -12 hours

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<tr>
<th>Course</th>
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<th>Hours</th>
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| H.S. Foreign Language (2 years) |     |

*has alternative courses  **courses can overlap with ICD  
***if courses do not overlap then courses come from electives  ^ Must attain a grade of C or Better to get credit
**KEY:**

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<tr>
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<tr>
<td>BICH 440</td>
<td>Biochemistry I</td>
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<td>BICH 441</td>
<td>Biochemistry II</td>
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<tr>
<td>BIOL 111</td>
<td>Introductory Biology I</td>
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<tr>
<td>BIOL 112</td>
<td>Introductory Biology II</td>
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<tr>
<td>BIOL 351</td>
<td>Microbiology (Writing Intensive)</td>
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<tr>
<td>CHEM 101/111</td>
<td>Fundamentals of Chemistry I &amp; Lab</td>
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<tr>
<td>CHEM 102/112</td>
<td>Fundamentals of Chemistry II &amp; Lab</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>Organic Chemistry I &amp; Lab</td>
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<tr>
<td>CHEM 228/238</td>
<td>Organic Chemistry II &amp; Lab</td>
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<tr>
<td>ENGL 104</td>
<td>Composition &amp; Rhetoric</td>
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<td>Technical and Business Writing</td>
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<td>GENE 101</td>
<td>Perspectives in Biochemistry and Genetics (cross-listed with BICH 101)</td>
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<td>GENE 302</td>
<td>Principles of Genetics</td>
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<td>GENE 312</td>
<td>Comprehensive Genetics Lab</td>
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<td>GENE 412</td>
<td>Population Genetics</td>
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<tr>
<td>GENE 431</td>
<td>Molecular Genetics (cross-listed with BICH 431)</td>
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<td>Molecular Genetics Lab (cross-listed with BICH 432) (Writing Intensive)</td>
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<td>MATH 151</td>
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<td>Engineering Math II (Calculus II)</td>
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<td>POLS 206</td>
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<td>POLS 207</td>
<td>State &amp; Local Government</td>
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<td>STAT 302</td>
<td>Statistical Methods</td>
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**American History Electives:** Select from HIST 105, 106, or other acceptable US History courses. May use 3 hours of Texas History for this requirement; may overlap with ICD (i.e. HIST 258 ... others available).

**Creative Arts Elective:** Refer to core curriculum list; may overlap with ICD (i.e. ARTS 150, ENDS 101; THAR 201...others available).

**Elective:** Any course not used elsewhere in the major except lower-level and non-major courses.

**ICD Elective:** International & Cultural Diversity; refer to core curriculum list and try to overlap when possible to keep free electives open.

*GENE 432 alternatives: BICH 414; BICH 432  
*MATH 152 alternative: MATH 172  
*MATH 151 alternative: MATH 171  
*BIOL 351 alternative: BIOL 413 and 423

Electives **cannot** be BICH 303; BICH 410-412; ENGL 100-102; MATH 100-104; 130-150, 230

Two courses in the degree plan must be a Writing Intensive course designated by the department in the schedule of classes. **Approved courses:** GENE 491, see advisor for additional courses.
Genetics - BS

Curriculum in Genetics is administered by the Department of Biochemistry and Biophysics.

Genetics is one of the most exciting, rapidly expanding areas in the life sciences. More than an independent discipline, it has become the basis for understanding many aspects of medical and agricultural systems, animal and plant diseases, and even animal behavior. Developments in molecular genetics have provided biotechnologies that will dramatically affect our lives from the improved diagnosis of human disease, to the production of viral-resistant crops, to environmental cleanup.

The undergraduate curriculum in genetics allows the study of several different aspects of genetics, including population genetics, human genetics and genetic engineering. The genetics major is designed to develop the knowledge and skills necessary for advanced studies in all disciplines related to life sciences from medicine/veterinary medicine to genetic engineering. This basic science curriculum also has enough flexibility to allow a student to prepare for such diverse careers as forensics, medicine, business or law.

Program Requirements

First Year

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<tr>
<th>Term</th>
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<tr>
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<tr>
<td>BIOL 111</td>
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<td>Composition and Rhetoric</td>
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<td>GENE 105</td>
<td>Perspectives in Genetics: Past, Present and Future</td>
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<td>Term Semester Credit Hours</td>
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<td>BIOL 112</td>
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<td>ENGL 210</td>
<td>Technical and Business Writing</td>
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| Term Semester Credit Hours | 15 |

Second Year

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<td>Organic Chemistry Laboratory</td>
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| Term Semester Credit Hours | 15 |

Spring

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<td>CHEM 112</td>
<td>Fundamentals of Chemistry Laboratory II</td>
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<td>Technical and Business Writing</td>
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| Term Semester Credit Hours | 16 |

Fourth Year

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<td>Cell Biology</td>
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<td>BIOL 423</td>
<td>and Cell Biology Laboratory</td>
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<td>GENE 431/BICH 431</td>
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<td>GENE 491</td>
<td>Research</td>
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| Term Semester Credit Hours | 15 |

Spring

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Tenth Year

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<td>MATH 171</td>
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| Term Semester Credit Hours | 15 |

Spring

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<p>| Term Semester Credit Hours | 16 |</p>
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<tbody>
<tr>
<td>Total Semester Credit Hours</td>
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</table>

1. Often used for a minor degree. Students intending to pursue an advanced degree in genetics are strongly encouraged to use some free electives for additional upper division courses in BICH, BIOL, CHEM, GENE, MATH or STAT.

2. To be selected from the University Core Curriculum. Of the 21 hours shown as University Core Curriculum electives, 3 must be from language, philosophy and culture, 3 from creative arts, 3 from social and behavioral sciences, 6 from American history, 6 from POLS 206 and POLS 207. The Graduation requirements include a requirement for 6 hours of International and Cultural Diversity courses which may be met by courses satisfying the language, philosophy and culture, creative arts, social and behavioral sciences, government/political science and American history requirements if they are also on the approved list of international and cultural diversity courses.

3. Before registration in BICH 440, students must have attained a grade of C or better in each of these courses: CHEM 227, CHEM 228, CHEM 237, CHEM 238.

4. Hours to be selected from any 400-level course in GENE with approval of student's academic advisor. GENE 432/BICH 432 or GENE 491 may not be used to satisfy this requirement.

Students must make a grade of C or better in all major coursework used to satisfy the degree plan.
Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

| Limitation | Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree. |
| Limitation | Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree. |

<table>
<thead>
<tr>
<th>Program</th>
<th>BS GENE</th>
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<tr>
<td>Campus</td>
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<tr>
<td>College</td>
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| Request Number | 265 |
| Results as of  | Sep 18, 2015 |

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This is NOT an official evaluation.

Area: Major Coursework (32,000 credits) - Not Met
Description: Must make a grade of 'C' or better in all major coursework.

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Select from BICH 414, 432; GENE 432.

| No  | AND            | F. Genetics | Reqmt 9hrs | 0.00     |         | 0.00     |              |              |           |        |       |        |

Select from GENE 400-480 (exclude GENE 432).

| No  | AND            | G. BICH 401 | 2hrs | 0.00     |         | 0.00     |              |              |           |        |       |        |
| No  | AND            | H. BICH 440 | 3hrs | 0.00     |         | 0.00     |              |              |           |        |       |        |
| No  | AND            | I. Research | Reqmt 4hrs | 0.00     |         | 0.00     |              |              |           |        |       |        |

Take GENE 491.

unofficial evaluation

Area Supporting Coursework (26,000 credits) - Not Met

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<td>C. Microbiology</td>
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Total Credits and GPA: 0.000

unofficial evaluation

Area Communication (6,000 credits) - Not Met:
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Total Credits and GPA: 0.000

unofficial evaluation

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Total Credits and GPA: 0.000

unofficial evaluation

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Total Credits and GPA: 0.000

unofficial evaluation

Area Language, Philosophy & Culture (3,000 credits) - Not Met:
| No  | AND | Language, Philosophy & Culture Reqmt 3hrs | Lang, Phil, Culture Reqmt 3hrs |

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalView/Option

2/5
unofficial evaluation

Area Creative Arts (3,000 credits) - Not Met
 Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
 No A. Creative Arts Requirement
 Select three hours from any course with the Creative Arts attribute [KCRA].
 Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Sciences (3,000 credits) - Not Met
 Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
 No A. Social Science Rqmt 3hrs
 Select from courses with the Social and Behavioral Sciences attribute [KSOC].
 Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Citizenship (12,000 credits) - Not Met
Description Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
 Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source Courses
 No A. American History Rqmt 6hrs
 Select from any course with the [KHLS] attribute.
 No AND B. Political Science Rqmt 6hrs
 Take POLS 206 and POLS 207.
 Total Credits and GPA 0.000 .00

unofficial evaluation

Area General Electives (12,000 credits) - Not Met
 Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source Courses
 No A. General Electives 12hrs
 Select from any course 100-499 not used elsewhere (except BICH 303, 410-412, ENGL 100-102, MATH 100-104, 130-150, 230).
 Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Work Not Applied - Met
Description See advisor for acceptable substitutions.
 Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source Courses
 No A. Courses not applied

https://compass-ssb.tamu.edu/pls/PROD/tbwkcapp.P_VerifyDispEvalViewOption
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<td>Only sections of BIOL 351; GENE 491; UGST 491 with the Writing</td>
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<td>attribute [UWRT] may be used to satisfy this requirement.</td>
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<td>Complete one of the following:</td>
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<td>1. Two years of the same foreign language in High School.</td>
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<td>2. A two semester sequence of the same foreign language for</td>
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<td>University credit.</td>
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<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas</td>
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<td>A&amp;M University. 12 hours must be in the major field.</td>
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<td>A. Residence - Major 12hrs</td>
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<td>Select from BIOL 414, 431, 432, GENE 300-499.</td>
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<td>AND B. Residence 300-400 24hrs</td>
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<td>Select from any 300-400 level course at Texas A&amp;M.</td>
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<td>Description</td>
<td>A minimum GPR of 2.000 is required in all major field of studies courses.</td>
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https://compass-ssb.tamu.edu/pls/PROD/bwcksapp.P_VerifDispEvalViewOption
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<tr>
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<td>Includes GENE 100-499; BICH 414, 431, 432.</td>
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unofficial evaluation

Back to Display Options
Changes in Degree Plan: BS in Genetics
Proposed for 2016-2017 Catalog

1. Change in student credit hours for GENE 302 (Principles of Genetics) from 4 SCH to 3 SCH
   Addition of GENE 312 (Comprehensive Genetics Laboratory) to degree plan

In the 2015-2016 catalog, the lab and lecture portions of GENE 302 (4 SCH) were dissociated, changing GENE 302 to a lecture course (3 SCH) and creating a new laboratory course GENE 312 (1 SCH). The proposed changes in the GENE degree plan reflect this change in the GENE course structure.

2. Elimination of GENE 105 (Perspectives in Genetics; 2 SCH ) from degree plan
   Addition of GENE 101 (Perspectives in Biochemistry and Genetics; 1 SCH) to degree plan

GENE 105 is a 2 SCH course currently taken by all freshmen GENE majors. The broad purpose of this course is to help freshmen understand what the major is all about and give them the opportunity to form relationships with other GENE and BICH majors. In recent years it has become apparent that only 1 SCH is needed to accomplish this mission. The proposed changes would alter the name, number, and SCH of GENE 105 to create GENE 101 (Perspectives in Biochemistry and Genetics; 1 SCH), which would be cross-listed as BICH 101.

3. Addition of 1 SCH to the Free Electives required for completion of the degree

With the loss of 1 SCH from the degree plan in proposed Item 2, the total SCH required for completion of the BS in Genetics will remain at 120 by adding 1 SCH to Free Electives. Having 12 SCH available makes much more sense than the current 11, as it fits better with typical lecture courses of 3 SCH.
CHANGE IN CURRICULUM

MAYS BUSINESS SCHOOL
DEPARTMENT OF FINANCE
CERTIFICATE IN COMMERCIAL BANKING
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   - [x] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  
   - [ ] Degree Program  
   - [ ] Minor  
   - [x] Certificate

3. Request submitted by (Department or Program Name):  
   - Department of Finance, Mays Business School

4. Program Designation and Name  
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   - Certificate in Commercial Banking

5. Brief description of change:  
   - No longer require FINC447—Financial Statement Analysis. Now require FINC464—Commercial Credit Analysis (new course request accompanies this request).
   - No longer require FINC475—Real Estate Investment Analysis. Now require FINC472—Real Estate Finance.

6. Rationale for change:  
   - After program review and consultation with banking experts on the program's advisory board, the Department seeks these changes in order to focus the program's content more rigorously and specifically on professional skills major banks demand at entry level.

7. Use the checkboxes below to make sure that all information is included.  
   - [x] Proposed curriculum attached.  
   - [x] Current catalog curriculum with handwritten edits attached.
   - [x] Current Howdy degree evaluation with handwritten edits attached.

   *Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.*

8. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   - [ ] Yes  
   - [x] No

   a. If yes, degree program hours will change from:  
   b. to: ____________

9. c. If yes, is the Texas Higher Education Coordinating Board form attached?  
   - [ ] Yes  
   - [ ] No

   - [x] Yes  
   - [ ] No

9. If proposed changes affect other unit(s), are letters of support attached?  
   - [ ] Yes  
   - [ ] No

[IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.]

Approval recommended by:  

<table>
<thead>
<tr>
<th>Department Chair or Program Chair (Type Name &amp; Sign)</th>
<th>Date</th>
<th>Dean of College</th>
<th>Date</th>
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<tbody>
<tr>
<td>Michelle C. B.</td>
<td>10/9/2015</td>
<td>10/14/15</td>
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Chair, College Review Committee  
Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14
## Proposed Curriculum—
Certificate in Commercial Banking
September 2015

<table>
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<tr>
<th>Course</th>
<th>Credit Hours</th>
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<td>Commercial Bank Management</td>
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<td>FINC463</td>
<td>Seminar in Commercial Banking</td>
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<td>FINC464</td>
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<td>FINC472</td>
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Total Semester Credit Hours 12
Commercial Banking - Certificate

The Commercial Banking Program (CBP) is designed to equip students with the banking and finance skills needed to transition to banking careers and serve the personnel needs of banking organizations in the state of Texas and the United States. The program requires completion of prescribed coursework and a paid summer internship with a member bank. Business students must be U.S. citizens or permanent residents.

Program Requirements

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FINC 414</td>
<td>Commercial Bank Management</td>
<td>3</td>
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<tr>
<td>FINC 462</td>
<td>Seminar in Commercial Banking</td>
<td>3</td>
</tr>
<tr>
<td>FINC 476</td>
<td>Real Estate Investment Analysis</td>
<td>3</td>
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- FIN 464 Financial Statement Analysis: 3
- FIN 472 Real Estate Finance: 3
CHANGE IN CURRICULUM

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
DEPARTMENT OF HEALTH AND KINESIOLOGY
BS IN SPORT MANAGEMENT – INTERNSHIP TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type:  
   ☒ Undergraduate  ☐ Graduate  ☐ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for:  
   ☒ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  
   Health and Kinesiology

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   B.S. in Sport Management - Internship Option

5. Brief description of change:  
   SPMT 482 is being changed to reflect that it is a writing intensive seminar. SPMT 481 is being added as a seminar with different topics each semester.

6. Rationale for change:  
   Currently students are required to take multiple sections of SPMT 482 to satisfy degree requirements one which is designated as a writing intensive section. Because it was confusing to students as to which sections of SPMT 482 they should be taking, it was decided by the sport management faculty to designate one course as the writing intensive course and create a new seminar course of variable topics so students would not be confused. SPMT 482 is being changed to reflect that it is a writing intensive seminar. SPMT 481 is being added as a seminar with different topics each semester.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  
   ☒ Yes  ☐ No

   b. Current catalog curriculum with handwritten edits attached.  
   ☒ Yes  ☐ No

   c. Current Howdy degree evaluation with handwritten edits attached.  
   ☒ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   ☐ Yes  ☒ No

   b. If yes, degree program hours will change from:  
   to:  

   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
   ☐ Yes  ☐ No
   
   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2755AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  
   ☐ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Richard Kreider  
Department Head or Program Chair (Type Name & Sign)  Date

Chris Cherry  
Dean of College  Date

Tim Scott  
Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 04/14
## Proposed Degree Plan

### BS in Sport Management - Internship Concentration

**Department of Health and Kinesiology**

### Major Coursework

- Must make a grade of 'C' or better.
- **A.** SPMT 217  *Foundations of Sport Management*  \(3\)
- **B.** SPMT 225  *Practical Skills for Sport Professionals*  \(3\)
- **C.** SPMT 304  *Psychology of Sport and Physical Activity*  \(3\)  
  PSYC 304  \(3\)
- **D.** SPMT 319  *Sociology of Sport*  \(3\)  
  SOCI 319  *Sociology of Sport*  \(3\)
- **E.** Sport Management Electives*  Select 6 hours from the following:
  - SPMT 334  *Sport Communication*
  - SPMT 336  *Diversity in Sport Organizations*
  - SPMT 337  *International Sport Business*
  - SPMT 340  *Sport Governance*
  - SPMT 420  *Sports Facility Planning*
  - **SPMT 482**  *Seminar*
  - **SPMT 481**  *Seminar*
  - SPMT 483  *Practicum*
  - SPMT 485  *Directed Studies*
  - SPMT 489  *Special Topics...*  \(6\)

**Total Major Coursework Credits** .......................................................... \(18\)

### Professional Development

- Must make a grade of 'C' or better.
- **A.** ACCT 209  *Survey of Accounting Principles*  \(OR\)
  ACCT 229  *Introductory Accounting*  \(3\)
- **B.** ISYS 209  *Business Information Systems Concepts*  \(3\)
- **C.** MGMT 209  *Business Government and Society*  \(OR\)
  MGMT 211  *Legal and Social Environment of Business*  \(3\)
- **D.** MGMT 309  *Survey of Management*  \(3\)
- **E.** MKTG 409  *Principles of Marketing*  \(3\)
- **F.** FINC 409  *Survey of Finance Principles*  \(3\)
- **G.** STAT 302  *Statistical Methods*  \(OR\)
  STAT 303  *Statistical Methods*  \(3\)

**Total Professional Development Credits** .................................................. \(21\)

### Sport Management Professional Program

- Must make a grade of 'C' or better.
- **A.** SPMT 333  *Sport Management*  \(3\)
- **B.** SPMT 402^  *Pre-Internship Field Experience*  \(1\)
- **C.** SPMT 421  *Legal Aspects of Sports*  \(3\)
- **D.** SPMT 422  *Financing Sport Operations*  \(3\)
- **E.** SPMT 423#  *Marketing Aspects of Sports*  \(3\)
- **F.** SPMT 482#  *Writing Seminar*  \(1\)
- **G.** SPMT 484  *Internship in Sport Management*  \(12\)

- Directed Electives  Select 10 hours from the following:
  - ACCT 210; ALED 340-342; COMM 205, 210, 315, 320, 340;  
  - ECON 203; EHRD 303, 408; FINC 201; KINE 100-499 (except KINE 198-199);  
  - MGMT 105, 212; MKTG 402; PSYC 107; RPTS 301, 311, 331, 340, 426;  
  - SPMT 100-499 (except SPMT 482); WGST 430.  \(10\)

- Maximum of 3 hours of SPMT 483;  
- Maximum of 6 hours of SPMT 483/SPMT 485 combined.

**Total Sport Management Professional Program Credits**  ............................................ \(36\)

---

Page 1 of 3  9/10/2014
General Electives
A. Any three hours not used elsewhere on the degree* 3
Total General Electives Credits \( \vdash \) 3

Communication
Must have at least a 'B' in one course and a 'C' or better in the other.
A. ENGL 103 Introduction to Composition and Rhetoric OR:
   ENGL 104 Composition and Rhetoric 3
B. COMM 203 Public Speaking OR:
   COMM 205 Communication for Technical Professionals OR:
   COMM 243 Argumentation and Debate 3
Total Communication Credits \( \vdash \) 6

Mathematics
A. MATH 141 Business Mathematics I OR:
   MATH 148 Calculus II for Biological Sciences OR:
   MATH 152 Engineering Mathematics II OR:
   MATH 166 Topics in Contemporary Mathematics II OR:
   MATH 172 Calculus 3
B. MATH 131 Mathematical Concepts – Calculus OR:
   MATH 142 Business Mathematics II OR:
   MATH 147 Calculus II for Biological Sciences OR:
   MATH 151 Engineering Mathematics II OR:
   MATH 171 Analytic Geometry and Calculus 3
Total Mathematics Credit \( \vdash \) 6

Life and Physical Sciences
A. KINE 120 The Science of Basic Health and Fitness OR:
   KINE 223 Intro to the Science of Health and Fitness 1-3
B. Any other science courses that meet Life and Physical Science core 6-8
Total Life and Physical Science courses \( \vdash \) 9

Language, Philosophy and Culture
Must make a grade of 'C' or better.
A. SPMT 220 Olympic Studies 3
Total Language, Philosophy and Culture Credits \( \vdash \) 3

Creative Arts
A. Any course that meets Creative Arts core requirement* 3
Total Creative Arts Credits \( \vdash \) 3

Social and Behavioral Science
Must make a grade of 'C' or better.
A. ECON 202 Principles of Economics 3
Total Social and Behavioral Science Credits \( \vdash \) 3
American History
A. Any 6 hours that meet American History Core Curriculum requirement 6
Total American History Credits: 6

Government/Political Science
A. POLS 206 American National Government 3
B. POLS 207 State and Local Government 3
Total Government/Political Science Credits: 6

*Proper selection of electives may meet International and Cultural Diversity requirements.
#These courses meet the University Writing/Communication requirement.
^Pre-internship course which MUST be taken the last fall or spring semester before HEFB 450 (Student Teaching).
Courses in BOLD indicate classes that must be taken before admission to the Professional Phase.
Courses that are shaded indicate classes in the Professional Phase of the program.
Sport Management - BS, Internship Track

The Bachelor of Science degree in Sport Management is designed to prepare students for careers as administrators and managers in athletic, health and country clubs, as well as entry-level management positions in college and professional athletic organizations. Through this program, students are prepared for a diversity of roles in the areas of sport marketing and promotions, facility management and planning, activity programming and events management. Students may elect the option that requires completion of an internship or may select the non-internship option. The internship, following coursework, provides students with on-the-job experience and networking opportunities. Students in the internship option will have also completed a business minor. The non-internship option allows students to study sport management from a specific perspective with the goal of continued educational experiences in graduate or professional school, obtaining a post-baccalaureate internship or securing an entry-level position in a sport organization. Students in the non-internship option must complete 2 minors/cognates from a list of approved minors/cognates (i.e., business, journalism, speech communications, etc.). There are common course requirements for both tracks.

Program Requirements

This degree plan shows students the number of hours they must take each semester in order to complete the degree in four years without attending summer school. This is a suggested plan and does not have to be followed as laid out below. Students should use this information in conjunction with advising documents available from their advisor or the department website when scheduling courses each semester to ensure they are meeting all prerequisites, taking courses for admission to professional phase in a timely manner, and meeting all grade requirements.

First Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>ENGL 103 or Introduction to Rhetoric and Composition or 3</td>
</tr>
<tr>
<td>ENGL 104 Composition and Rhetoric 3</td>
</tr>
<tr>
<td>Select one of the following: 3-4</td>
</tr>
<tr>
<td>MATH 141 Business Mathematics I 4</td>
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<tr>
<td>MATH 148 Calculus II for Biological Sciences 4</td>
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<tr>
<td>MATH 152 Engineering Mathematics II 4</td>
</tr>
<tr>
<td>MATH 188 Topics in Contemporary Mathematics II 4</td>
</tr>
<tr>
<td>MATH 172 Calculus 4</td>
</tr>
<tr>
<td>POLS 206 American National Government 3</td>
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<tr>
<td>Life and physical sciences elective 1 4</td>
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<tr>
<td>American history elective 1,2 3</td>
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<td>Term Semester Credit Hours 16</td>
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Spring

<table>
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<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>Select one of the following: 3</td>
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<tr>
<td>COMM 203 Public Speaking 3</td>
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<td>COMM 205 Communication for Technical Professions 3</td>
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<td>COMM 2A3 Argumentation and Debate 3</td>
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<td>Select one of the following: 3-4</td>
</tr>
<tr>
<td>MATH 131 Mathematical Concepts—Calculus 4</td>
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<tr>
<td>MATH 142 Business Mathematics II 4</td>
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<td>MATH 147 Calculus I for Biological Sciences 4</td>
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<td>MATH 151 Engineering Mathematics I 4</td>
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<td>MATH 171 Analytic Geometry and Calculus 4</td>
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<td>SPMT 217 Foundations of Sport Management 4</td>
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<td>Life and physical sciences elective 1 4</td>
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<tr>
<td>American history elective 1,2 3</td>
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<td>Term Semester Credit Hours 16</td>
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Second Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>SPMT 220 Olympic Studies 3</td>
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<tr>
<td>SPMT 225 Practical Skills for Sport Professionals 3</td>
</tr>
<tr>
<td>ECON 202 Principles of Economics 3</td>
</tr>
<tr>
<td>KINE 120 The Science of Basic Health and Fitness 1</td>
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<td>POLS 207 State and Local Government 3</td>
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<tr>
<td>ISYS 209 Business Information Systems Concepts 3</td>
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<td>Term Semester Credit Hours 16</td>
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Spring

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ACCT 209 Survey of Accounting Principles 3</td>
</tr>
<tr>
<td>MGMT 209 Business, Government and Society 3</td>
</tr>
<tr>
<td>Creative arts elective 1,2 3</td>
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<td>Directed Elective 4 3</td>
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<tr>
<td>Free Elective 3</td>
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Third Year

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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>SPMT 304 Sport Psychology Management and Practice 3</td>
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<td>SPMT 333 Sport Management 3</td>
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<tr>
<td>MGMT 309 Survey of Management 3</td>
</tr>
<tr>
<td>STAT 302 or STAT 303 Statistical Methods or Statistical Methods 3</td>
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<tr>
<td>Sport Management Elective 4 3</td>
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<td>Term Semester Credit Hours 15</td>
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Spring

<table>
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<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>SPMT 319/320 Sociology of Sport 3</td>
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<tr>
<td>SPMT 422 Financing Sport Operations 3</td>
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<tr>
<td>MKTG 409 Principles of Marketing 3</td>
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Fourth Year

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<tr>
<td>Fall</td>
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<tr>
<td>SPMT 402 Pre-Internship Field Experiences 1</td>
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<td>SPMT 421 Legal Aspects of Sport 3</td>
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<td>SPMT 423 Marketing Aspects of Sport 5 3</td>
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<tr>
<td>SPMT 482 Seminar 5 1</td>
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<td>FINC 409 Survey of Finance Principles 3</td>
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Directed Elective 4

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<tr>
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<tr>
<td>SPMT 484</td>
<td>Internship in Sport Management</td>
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</table>

Total Semester Credit Hours: 120

1 Must meet Core Curriculum requirements.
2 Course selection should meet the International and Cultural Diversity graduation requirement, if necessary.
3 Meets the Language, Philosophy and Culture core curriculum requirement.
4 To be chosen in consultation with academic advisor. Some electives may meet International and Cultural Diversity graduation requirement.
5 Courses meets University writing requirement.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 3 hours of KINE 199 may be used towards this degree.

Limitation No more than 3 hours of KINE 483 may be used towards this degree.

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<td>Overall GPA</td>
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This is NOT an official evaluation.

Area Major Coursework (15,000 credits) - Not Met:

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<th>Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
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<td>C.</td>
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<td>D.</td>
<td>Sociology of Sport 3hrs</td>
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<tr>
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<td>E.</td>
<td>SPMT Elect 6hrs</td>
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481

unofficial evaluation

Area: Professional Development (21,000 credits) - Not Met:

Area Description:

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<th>Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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</table>

https://compass-ssb.tamu.edu/PROD/bwckpwwo.P_VerifDiscEvalViewOption

1/5
### Detail Requirements

Select from ACCT 209, 229. Must make a grade of 'C' or better.

AND

B.  
MKTG 409  
Must make a grade of 'C' or better.

AND

C.  
Accounting 211. Must make a grade of 'C' or better.

AND

D.  
MKTG 309  
Must make a grade of 'C' or better.

AND

E.  
MKTG 409  
Must make a grade of 'C' or better.

AND

F.  
FINC 409  
Must make a grade of 'C' or better.

AND

G.  
Statistics Rqmt 3hrs  
Select from STAT 302-303. Must make a grade of 'C' or better.

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>Subject</th>
<th>Course</th>
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<tbody>
<tr>
<td></td>
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<td>SPMT 333</td>
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<td>SPMT 402</td>
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<td>SPMT 482</td>
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<td>SPMT 484</td>
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<tr>
<td></td>
<td></td>
<td>Directed Electives 10hrs</td>
<td></td>
</tr>
</tbody>
</table>

Maximum of 6 hours of SPMT 483/SPMT 485; only 3 hours may be used from SPMT 483.

| Total Credits and GPA | 0.000 | .00 |

**unofficial evaluation**

### Area SPMT-Professional Program (36.000 credits) - Not Met

**Met Condition Rule Subject Attribute Low High Required Credits Required Courses**

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>Subject</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ENGL 103 or ENGL 104</td>
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</table>

Must have at least a 'B' in one course and a 'C' or better in the other in Rule A and B.

AND

B.  
Communication 3hrs  
Must have at least a 'B' in one course and a 'C' or better in the other in Rule A and B.  
Select from COMM 203, 205, 243.

| Total Credits and GPA | 0.000 | .00 |
unofficial evaluation

Area Mathematics (6,000 credits) - Not Met

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<th>Required</th>
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<th>Courses</th>
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<th>Attribute</th>
<th>Credits</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>Mathematics</td>
<td>Reqmt I 3hrs</td>
<td>Select from MATH 141, 148, 152, 165, 172.</td>
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<td>AND B.</td>
<td></td>
<td>Mathematics</td>
<td>Reqmt II 3hrs</td>
<td>Select from MATH 131, 142, 147, 151, 171.</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Life and Physical Sciences (9,000 credits) - Not Met

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<th>Term Subject</th>
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<td>No</td>
<td>A.</td>
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<td>KINE 120 or KINE 223 1hr</td>
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<td>No</td>
<td>AND B.</td>
<td></td>
<td>Life and Physical Sciences 8hr</td>
<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Language, Philosophy & Culture (3,000 credits) - Not Met

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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Creative Arts (3,000 credits) - Not Met

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<td>No</td>
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<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Science (3,000 credits) - Not Met

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<td>ECON 202</td>
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Must make a grade of 'C' or better.

Total Credits and GPA 0.000 .00
### Unofficial Evaluation

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<tr>
<td>Citizenship (11.000 credits) - Not Met</td>
<td>Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.</td>
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<td>American History Rqmt 6hrs</td>
<td>Select from any course with the [KHSI] attribute.</td>
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<tr>
<td>Political Science Rqmt 6hrs</td>
<td>Take POL 206 and POL 207.</td>
<td>No</td>
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<th>General Electives (3.000 credits) - Not Met</th>
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<td>General Electives 3hrs</td>
<td>Select from any course 100-499 not used elsewhere.</td>
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### Unofficial Evaluation

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### Unofficial Evaluation

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<th>University Writing Requirement - Not Met</th>
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<tr>
<td>Writing Requirement</td>
<td>Two courses required. Only sections of SPMT 423, 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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### Unofficial Evaluation

<table>
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<tr>
<th>Area</th>
<th>Int'l &amp; Cult Diversity - Not Met</th>
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<td>Int'l &amp; Cultural Diversity 6hrs</td>
<td>Select from courses with the International and Cultural Diversity attribute (UCID) (except sections of BUSN 289 with the UWRT attribute).</td>
<td>No</td>
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unofficial evaluation

Area: Foreign Language - Not Met

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<th>Credits</th>
<th>Grade</th>
<th>Source</th>
<th>Total Credits and GPA</th>
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| No  | A.         | Foreign Language Reqmt | Complete one of the following:  
1. Two years of the same foreign language in High School.  
2. A two semester sequence of the same foreign language for University credit. | | | | | | | | | | | | Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

Area: Residence - Not Met

Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

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<th>Courses</th>
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<th>Total Credits and GPA</th>
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<tr>
<td>No</td>
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<td>Residence - Major 12hrs</td>
<td>Select 12hrs from SPM 100-499.</td>
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| No  | AND B.     | Residence 300-499 24hrs | Select 24hrs from any 300-400 level course at Texas A&M University. | | | | | | | | | | Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

Area: GPR-Major - Not Met

Description: A minimum GPR of 2.00 is required in all major field of studies courses.

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<td>No</td>
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<td>Major GPR 3.5+/hrs</td>
<td>Includes ISYS 209-210; KINE 100-499; SOC 319; SPM 100-499.</td>
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unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
DEPARTMENT OF HEALTH AND KINESIOLOGY
BS IN SPORT MANAGEMENT – NON-INTERNSHIP TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☒ Undergraduate ☐ Graduate ☐ First Professional (e.g., DPM, JD, MD, etc.)

2. Request change for: ☒ Degree Program ☐ Minor ☐ Certificate

3. Request submitted by (Department or Program Name): Health and Kinesiology

Program Designation and Name
(e.g., B.A. in History, Minor in History, Certificate in European Union): B.S. in Sport Management - No Internship Option

5. Brief description of change: SPMT 482 is being changed to reflect that it is a writing intensive seminar. SPMT 481 is being added as a seminar with different topics each semester.

6. Rationale for change: Currently students are required to take multiple sections of SPMT 482 to satisfy degree requirements one which is designated as a writing intensive section. Because it was confusing to students as to which sections of SPMT 482 they should be taking, it was decided by the sport management faculty to designate one course as the writing intensive course and create a new seminar course of variable topics so students would not be confused. SPMT 482 is being changed to reflect that it is a writing intensive seminar. SPMT 481 is being added as a seminar with different topics each semester.

7. a. Proposed curriculum attached. ☒ Yes ☐ No

b. Current catalog curriculum with handwritten edits attached. ☒ Yes ☐ No

c. Current Howdy degree evaluation with handwritten edits attached. ☒ Yes ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☒ No

b. If yes, degree program hours will change from: _______ to: _______

c. If yes, is the Texas Higher Education Coordinating Board form attached? http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60 ☐ Yes ☒ No

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☒ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

<table>
<thead>
<tr>
<th>Richard Kreider</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department Head or Program Chair (Type Name &amp; Sign)</td>
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<table>
<thead>
<tr>
<th>Chris Cherry</th>
<th>Date</th>
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<tr>
<td>Dean of College</td>
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<table>
<thead>
<tr>
<th>Chris Cherry</th>
<th>Date</th>
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<tbody>
<tr>
<td>Chair, College Review Committee</td>
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<table>
<thead>
<tr>
<th>Tim Scott</th>
<th>Date</th>
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<tr>
<td>Chair, GC or UCC</td>
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</table>

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14
BS in Sport Management – Non-Internship Concentration
Department of Health and Kinesiology

**Major Coursework**

- **A.** SPMT 217  
  Foundations of Sport Management  
  OR  
  PSYC 304  
  3  

- **B.** SPMT 225  
  Practical Skills for Sport Professionals  
  3  

- **C.** SPMT 304  
  Psychology of Sport and Physical Activity  
  OR  
  PSYC 319  
  Sociology of Sport  
  3  

- **D.** SPMT 319  
  Sociology of Sport  
  OR  
  SOCI 319  
  Sociology of Sport  
  3  

- **E.** HLTH/KINE 240  
  Computer Technology in Health and Kinesiology  
  OR  
  ISYS 209  
  Business Information Systems Concepts  
  3  

- **F.** Sport Management Electives*  
  Select 6 hours from the following:  
  SPMT 334  
  Sport Communication  
  SPMT 336  
  Diversity in Sport Organizations  
  SPMT 337  
  International Sport Business  
  SPMT 340  
  Sport Governance  
  SPMT 420  
  Sports Facility Planning  
  SPMT 482 Seminar  
  SPMT 481 Seminar  
  SPMT 483 Practicum  
  SPMT 485 Directed Studies  
  SPMT 489 Special Topics...  
  6  

Total Major Coursework Credits: 21

**Sport Management Professional Program**

- **A.** SPMT 333  
  Sport Management  
  3  

- **B.** SPMT 421  
  Legal Aspects of Sports  
  3  

- **C.** SPMT 422  
  Financing Sport Operations  
  3  

- **D.** SPMT 423#  
  Marketing Aspects of Sports  
  3  

- **E.** SPMT 450  
  Professional Practice in Sport Management  
  3  

- **F.** SPMT 481 Seminar  
  1  

- **G.** SPMT 482#  
  Professional Writing Seminar  
  2  

- **H.** STAT 302  
  Statistical Methods  
  OR  
  STAT 303  
  Statistical Methods  
  3  

- **I.** Directed Electives  
  Select 1-13 hours from the following:  
  ACCT 210; ALED 340-342; COMM 205, 210, 315, 320, 340;  
  ECON 203; EHHD 303, 408; FINC 201; KINE 100-499 (except KINE 198-199);  
  MGMT 105, 212; MKTG 402; PSYC 107; RPTS 301, 311, 331, 340, 426;  
  SPMT 100-499 (except SPMT 482); WGST 430.  
  Maximum of 3 hours of SPMT 483;  
  Maximum of 6 hours of SPMT 483/SPMT 485 combined.  
  1-13  

- **J.** Minor/Cognate  
  12-18  

- **K.** Minor/Cognate  
  12-18  

Total Sport Management Professional Program Credits: 57

**Communication**

- **A.** ENGL 103  
  Introduction to Composition and Rhetoric  
  OR  
  ENGL 104  
  Composition and Rhetoric  
  3
## Proposed Degree Plan

### B. COMM 203  
Public Speaking  
OR
COMM 205  
Communication for Technical Professionals  
OR
COMM 243  
Argumentation and Debate  
3

Total Communication Credits ................................................................. 6

### Mathematics

A. MATH 141  
Business Mathematics I  
OR
MATH 148  
Calculus II for Biological Sciences  
OR
MATH 152  
Engineering Mathematics II  
OR
MATH 166  
Topics in Contemporary Mathematics II  
OR
MATH 172  
Calculus  
3

B. MATH 131  
Mathematical Concepts – Calculus  
OR
MATH 142  
Business Mathematics II  
OR
MATH 147  
Calculus II for Biological Sciences  
OR
MATH 151  
Engineering Mathematics II  
OR
MATH 171  
Analytic Geometry and Calculus  
3

Total Mathematics Credit ................................................................. 6

### Life and Physical Sciences

A. KINE 120  
The Science of Basic Health and Fitness  
OR
KINE 223  
Intro to the Science of Health and Fitness  
1-3

B. Any other science courses that meet Life and Physical Science core  
6-8

Total Life and Physical Science Credits ................................................. 9

### Language, Philosophy and Culture

Must make a grade of 'C' or better.

A. SPMT 220  
Olympic Studies  
3

Total Language, Philosophy and Culture Credits ..................................... 3

### Creative Arts

A. Any course that meets Creative Arts core requirement*  
3

Total Creative Arts Credits .............................................................. 3

### Social and Behavioral Science

Must make a grade of 'C' or better.

A. ECON 202  
Principles of Economics  
3

Total Social and Behavioral Science Credits ........................................ 3

### American History

A. Any 6 hours that meet American History Core Curriculum requirement  
6

Total American History Credits ......................................................... 6

### Government/Political Science

A. POLS 206  
American National Government  
3

B. POLS 207  
State and Local Government  
3

Total Government/Political Science Credits ........................................... 6

*Proper selection of electives may meet International and Cultural Diversity requirements.
#These courses meet the University Writing/Communication requirement.
Courses in BOLD indicate classes that must be taken before admission to the Professional Phase.
Courses that are shaded indicate classes in the Professional Phase of the program.
Sport Management - BS, Non-internship Track

The Bachelor of Science degree in Sport Management is designed to prepare students for careers as administrators and managers in athletic, health and country clubs, as well as entry-level management positions in college and professional athletic organizations. Through this program, students are prepared for a diversity of roles in the areas of sport marketing and promotions, facility management and planning, activity programming and events management. Students may elect the option that requires completion of an internship or may select the non-internship option. The internship, following coursework, provides students with on-the-job experience and networking opportunities. Students in the internship option will have also completed a business minor. The non-internship option allows students to study sport management from a specific perspective with the goal of continued educational experiences in graduate or professional school, obtaining a post-baccalaureate internship or securing an entry-level position in a sport organization. Students in the non-internship option must complete 2 minors/cognates from a list of approved minors/cognates (i.e., business, journalism, speech communications, etc.). There are common course requirements for both tracks.

Program Requirements

This degree plan shows students the number of hours they must take each semester in order to complete the degree in four years without attending summer school. This is a suggested plan and does not have to be followed as laid out below. Students should use this information in conjunction with advising documents available from their advisor or the department website when scheduling courses each semester to ensure they are meeting all prerequisites, taking courses for admission to professional phase in a timely manner, and meeting all grade requirements.

<table>
<thead>
<tr>
<th>First Year</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>ENGL 103 or Introduction to Rhetoric and Composition or 3</td>
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<tr>
<td>ENGL 104   Composition and Rhetoric</td>
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<td>Select from one of the following:  3-4</td>
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<tr>
<td>MATH 141   Business Mathematics I</td>
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<td>MATH 148   Calculus II for Biological Sciences</td>
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<td>MATH 152   Engineering Mathematics II</td>
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<td>MATH 166   Topics in Contemporary Mathematics II</td>
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<td>MATH 172   Calculus</td>
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<td>POLS 206   American National Government 3</td>
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<tr>
<td>Life and physical sciences elective 1 4</td>
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<tr>
<td>American history elective 1,2 3</td>
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<tbody>
<tr>
<td>Select one of the following: 3</td>
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<tr>
<td>COMM 203   Public Speaking</td>
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<td>COMM 205   Communication for Technical Professions</td>
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<td>COMM 243   Argumentation and Debate</td>
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<td>Select one of the following: 3-4</td>
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<td>MATH 131   Mathematical Concepts—Calculus</td>
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<td>MATH 142   Business Mathematics II</td>
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<th>Second Year</th>
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<td><strong>Fall</strong></td>
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<td>SPMT 220   Olympic Studies 3</td>
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<td>SPMT 225   Practical Skills for Sport Professionals</td>
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<td>ECON 202   Principles of Economics 3</td>
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<td>KINE 120   The Science of Basic Health and Fitness 1</td>
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<tr>
<td>KINE 240/HLTH 240 or ISYS 209</td>
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<td>Computer Technology in Health and Kinesiology or Business Information Systems Concepts 3</td>
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<th>Third Year</th>
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<td>SPMT 304   Sport Psychology Management and Practice 3</td>
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<td>SPMT 333   Sport Management</td>
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<td>STAT 302 or STAT 303</td>
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<tr>
<td>Statistical Methods or Statistical Methods 3</td>
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<tr>
<td>Sport Management Elective 5 3</td>
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<td>Directed Elective 5 3</td>
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<tr>
<td>SPMT 319/SOCI 319</td>
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<tr>
<td>Sociology of Sport 3</td>
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<tr>
<td>SPMT 422   Financing Sport Operations 3</td>
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<td>Sport Management Elective 5 3</td>
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<td>SPMT 482   Directed Elective 5 1</td>
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**Term Semester Credit Hours: 14**

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<td>SPMT 421</td>
<td>Legal Aspects of Sport 3</td>
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<td>SPMT 423</td>
<td>Marketing Aspects of Sport(^6) 3</td>
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<tr>
<td>SPMT 486</td>
<td>Seminar 1</td>
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| Minor     | 3 |
| Minor     | 3 |

**Term Semester Credit Hours: 13**

**Total Semester Credit Hours: 120**

1. Must meet Core Curriculum requirements.
2. Course selection should meet the International and Cultural Diversity Graduation requirement.
3. Meets the Language, Philosophy and Culture core curriculum requirement.
4. Students select 2 minors/cognates which range between 24 and 36 credit hours. Directed Electives range from 4-16 credit hours. See your academic advisor for a list of acceptable minors and directed electives.
5. To be chosen in consultation with academic advisor.
6. Courses meets University writing requirement.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 3 hours of KINE 199 may be used towards this degree.

Limitation No more than 3 hours of KINE 483 may be used towards this degree.

Program: B5 SPMT-Non Internship

Catalog Term: Fall 2015 - College Station

Evaluation Term: Fall 2015 - College Station

Expected Graduation Date: 

Request Number: 7

Results as of: Sep 29, 2015

Minors:

Concentrations:

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<td>Program GPA:</td>
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Other Course Information

Transfer: 0.00 0

This is NOT an official evaluation.

Area: Major Coursework (21.000 credits) - Not Met

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<td>Select from SPMT 334, 336, 337, 340, 420, 482, 483, 485, 489, Must make a grade of 'C' or better.</td>
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Total Credits and GPA 0.000

### Unofficial Evaluation

**Area: SPMT-Professional Program (20,000 credits) - Not Met**

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**Total Credits and GPA** 0.000

### Unofficial Evaluation

**Area: Cognates and Electives (37,000 credits) - Not Met**

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**Total Credits and GPA** 0.000

### Unofficial Evaluation

**Area: Communication (6,000 credits) - Not Met**

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https://compass.sch.tamu.edu/cls/PRO/hukconpP_VeriDissEval/ViewOption
unofficial evaluation

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<th>Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Mathematics Rqmt I 3hrs</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>AND</td>
<td>B.  Mathematics Rqmt II 3hrs</td>
<td></td>
<td></td>
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</tbody>
</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Life and Physical Sciences (9,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>KINE 120 or KINE 223 1hr</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>AND</td>
<td>B.  Life and Physical Sciences 8hr</td>
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<td></td>
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</tr>
</tbody>
</table>

Total Credits and GPA 4.000

unofficial evaluation

Area: Language, Philosophy & Culture (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>SMPT 220</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Creative Arts (3,000 credits) - Not Met

<table>
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<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Creative Arts Requirement</td>
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<td></td>
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Total Credits and GPA 0.000

unofficial evaluation

https://comnass-ssh.tamu.edu/nls/PRON/hwckannP.VerifyDspEvlViewOption
Detail Requirements

Area: Social and Behavioral Science (3,000 credits) - Not Met
Mets: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>ECON 202</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Citizenship (12,000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
Mets: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>American History Rqmt 6hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

Area: Work Not Applied - Not Met
Description: See advisor for acceptable substitutions.
Mets: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

| No | A. | Courses not applied |

Total Credits and GPA

unofficial evaluation

Area: University Writing Requirement - Not Met
Mets: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Writing Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Two courses required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Only sections of SPMT 423, 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met
Mets: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Int'l &amp; Cultural Diversity 6hr</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Foreign Language - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Foreign Language Rqmt</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Two years of the same foreign language in High School</td>
</tr>
<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
<tr>
<td>Total Credits and GPA</td>
<td>0.000</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University, 12 hours must be in the major field</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
</tr>
<tr>
<td></td>
<td>Select 12hrs from SPMT 100-499.</td>
</tr>
<tr>
<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
</tr>
<tr>
<td></td>
<td>Select 24hrs from any 300-400 level course at Texas A&amp;M University.</td>
</tr>
<tr>
<td>Total Credits and GPA</td>
<td></td>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>GPR-Major - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum GPR of 2.00 is required in all major field of studies courses.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Major GPR 32+hrs</td>
</tr>
<tr>
<td></td>
<td>Includes HITH 740; ISYS 209-210; KINF 100-499; SOCI 319; SPMT 100-499.</td>
</tr>
<tr>
<td>Total Credits and GPA</td>
<td></td>
</tr>
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</table>

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
DEPARTMENT OF HEALTH AND KINESIOLOGY
MINOR IN SPORT MANAGEMENT
APPROVAL OF SPORT MANAGEMENT MINOR FIELD OF STUDY

Name: ____________________________ UIN: ____________ Major: ____________

Expected Graduation Date: Fall _____ Spring _____ Summer _____ Year ____________

Minor: SPMT Optional _______ Required: _______ Catalog: ______________

15 of the following 18 hours must be taken to satisfy the Sport Management Minor. All classes must be taken on-line. **Students in this minor are NOT allowed to enroll in any writing intensive sections 900 or above of SPMT 482 to satisfy the University Writing Requirement.**

**Required Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPMT 217</td>
<td>Intro to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>*SPMT 482</td>
<td>Seminar in...</td>
<td>1</td>
</tr>
<tr>
<td>*SPMT 481</td>
<td>Seminar in...</td>
<td>1</td>
</tr>
<tr>
<td>*SPMT 482</td>
<td>Seminar in...</td>
<td>1</td>
</tr>
<tr>
<td>Total Required Coursework</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours for SPMT minor** 15

**ALL COURSES MUST BE PASSED WITH A “C” OR BETTER**

*Must be on different topics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPMT 340</td>
<td>Sport Governance</td>
<td>3</td>
</tr>
<tr>
<td>SPMT 489</td>
<td>Performance Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINE/PSYC 304</td>
<td>Psychology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE/SOCI 319</td>
<td>Sociology of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPMT 336</td>
<td>Diversity in Sport Org</td>
<td>3</td>
</tr>
<tr>
<td>SPMT 337</td>
<td>International Sport Business</td>
<td>3</td>
</tr>
<tr>
<td>Total Elective Coursework</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Elective Courses**

(Choose 9 hours from the courses below)

Student’s Signature ____________________________ Date ________________

Approved by:

Minor Department ____________________________ Date ________________

Advisor: Ryan Scheffler, Department of Health and Kinesiology

Phone: 979.845.4530

Minor entered in Compass (date) ____________________________

Major Department ____________________________ Date ________________

- Copy of approval must be submitted to Department offering minor, student’s major department and student’s dean.
- If a student decides not to complete minor, notification must be given to student’s major department in order to remove minor from degree audit.

Other requirements for minor: __________________________________________

__________________________________________

__________________________________________
Sport Management - Minor

The minor provides a foundational understanding of the multifarious sport industry from the perspectives of management, marketing and other business principles. The minor provides an introductory understanding of the broadly defined sport management discipline and potential careers that can be leveraged in the sport industry.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPMT 217</td>
<td>Foundations of Sport Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Take the following course three times:</td>
<td>3</td>
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<tr>
<td></td>
<td>SPMT 481 Seminar 1</td>
<td></td>
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<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
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<tr>
<td></td>
<td>SPMT 304 Sport Psychology Management and Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPMT 319/ Socioculture of Sport</td>
<td></td>
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<tr>
<td></td>
<td>SOCI 319</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPMT 336 Diversity in Sport Organizations 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPMT 337 International Sport Business 2</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

1. Topics for the seminar classes include: Sport Sponsorship, Athletic Administration and Sport and the Media.
2. Courses meet International and Cultural Diversity requirement

Students must make a grade of "C" or better in all courses.
unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>Met</th>
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<th>Low High Required</th>
<th>Required Term Subject Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
<th>Credits</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>American History Rqmt 6hrs</td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td></td>
<td>Political Science Rqmt 6hrs</td>
<td></td>
<td>PSU POLS 206 and PSU POLS 207.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: General Electives (3.000 credits) - Not Met
Description: See advisor for acceptable substitutions.

<table>
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<tr>
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<th>Low High Required</th>
<th>Required Term Subject Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
<th>Credits</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>General Electives 3hrs</td>
<td></td>
<td>Select from any course 100-499 not used elsewhere.</td>
<td></td>
<td></td>
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</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: Work Not Applied - Met
Description: No grade below a 'C' is acceptable.

<table>
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<th>Met</th>
<th>Condition Rule Subject Attribute</th>
<th>Low High Required</th>
<th>Required Term Subject Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
<th>Credits</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>Courses not applied</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area: Sport Management Minor (15.000 credits) - Not Met
Description: No grade below a 'C' is acceptable.

<table>
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<th>Met</th>
<th>Condition Rule Subject Attribute</th>
<th>Low High Required</th>
<th>Required Term Subject Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
<th>Credits</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>SMRT 217</td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
<td></td>
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</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td></td>
<td>Elective 9hrs</td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>KINE 304, 319; SMRT 336, 337.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No AND</td>
<td>C.</td>
<td></td>
<td>KINE 333 3hrs</td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
<td></td>
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</tr>
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</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: University Writing Requirement - Not Met
Description: Two courses required.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute</th>
<th>Low High Required</th>
<th>Required Term Subject Course Title</th>
<th>Attribute Credits</th>
<th>Grade Source</th>
<th>Credits</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Writing Requirement</td>
<td>Two courses required.</td>
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</table>

https://compsis-ssb.tamu.edu/idls/PROD/bwckapacvP Verif/DspEv/ViewOption
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - COASTAL & OCEAN ENGINEERING TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  ✓Undergraduate  □Graduate  □First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  ✓Degree Program  □Minor  □Certificate

3. Request submitted by (Department or Program Name):
   Zachry Department of Civil Engineering

4. Program Designation and Name:
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Civil Engineering - Coastal & Ocean Engineering

5. Brief description of change:
   (1) Addition of 1 required course: CVEN 399.
   (2) Redefinition of options for upper-level technical elective courses.

6. Rationale for change:
   (1) CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.
   (2) Technical electives options have been redefined to cover essential concepts in technical specialization more completely.

7. a. Proposed curriculum attached.  ✓Yes  □No
   b. Current catalog curriculum with handwritten edits attached.  ✓Yes  □No
   c. Current Howdy degree evaluation with handwritten edits attached.  ✓Yes  □No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  □Yes  ✓No
   b. If yes, degree program hours will change from:  to:  
   c. If yes, is the Texas Higher Education Coordinating Board form attached?  □Yes  □No

9. If proposed changes affect other unit(s), are letters of support attached?  □Yes  □No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robin Autenrieth
Department Head or Program Chair (Type Name & Sign)  Date

Dean of College  Date

Chair, College Review Committee  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williamson@tamu.edu.
Curricular Services – 04/14
## CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
<th>Second Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
<td>(3-0)</td>
<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>(1-3)</td>
<td>2</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
<td>(0-3)</td>
<td>1</td>
</tr>
<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>(3-2)</td>
<td>4</td>
<td>ENGR 112 Foundations in Engr. II</td>
<td>(1-3)</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 218 Mechanics</td>
<td>(3-3)</td>
<td>4</td>
<td>MATH 152 Engineering Mathematics II</td>
<td>(3-2)</td>
<td>4</td>
</tr>
<tr>
<td>University Core Curriculum Elective(^1)</td>
<td>3</td>
<td></td>
<td>PHYS 208 Electricity and Optics</td>
<td>(3-3)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University Core Curriculum Elective(^1)</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>16</strong></td>
<td></td>
<td></td>
<td><strong>17</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
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<th>(Th-Pr)</th>
<th>(Cr)</th>
<th></th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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</thead>
<tbody>
<tr>
<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
<td>(1-0)</td>
<td>1</td>
<td>CVEN 250 Graphics &amp; Visualiz. in Civil Eng.</td>
<td>(1-3)</td>
<td>2</td>
</tr>
<tr>
<td>CVEN 221 Engr. Mech.: Statics</td>
<td>(2-2)</td>
<td>3</td>
<td>CVEN 302 Computer Applications</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 251 Engineering Mathematics III</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 303 Civil Engr. Measurement</td>
<td>(2-3)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211 Principles of Statistics I</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 305 Engr Mech. of Materials</td>
<td>(3-0)</td>
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<tr>
<td>University Core Curriculum Elective(^1)</td>
<td>3</td>
<td></td>
<td>CVEN 306 Materials for Civil Engineers</td>
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<td>MATH 308 Differential Equations</td>
<td>(3-0)</td>
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### JUNIOR YEAR

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<td>CVEN 311 Fluid Dynamics</td>
<td>(3-0)</td>
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<td>CVEN 399 Mid-Curriculum Prof. Development</td>
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<td>CVEN 322 Civil Engineering Systems II</td>
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<td>MEEN 315, ELEN 215, or BAEN 320</td>
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<td>CVEN 345 Theory of Structures</td>
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<td>CVEN 363 Engr Mech: Dynamics</td>
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<td>University Core Curriculum Elective(^1)</td>
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### SENIOR YEAR

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<tbody>
<tr>
<td>CVEN 424 Civil Engineering Prof. Practice(^4)</td>
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<td>2</td>
<td>ENGR/PHIL 482 Ethics and Engineering(^4)</td>
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<td>Technical Electives(^3)</td>
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<td><strong>15</strong></td>
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### NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.
2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics, and engineering courses taken to satisfy degree requirements.
3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.
4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering, BS - Coastal and Ocean Engineering Track

The Coastal and Ocean Engineering Track prepares students to analyze and design systems for shallow and deep water environments. The track is suitable for a career related to coastal and offshore engineering, and those planning on further specialization in graduate studies.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric ^1</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering ^1</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics ^1+2</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics ^1</td>
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<tr>
<td>University Core Curriculum ^3</td>
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<td><strong>Total Semester Credit Hours</strong></td>
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<thead>
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<th>Spring</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students ^1+4</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory ^1</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundations of Engineering ^1</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Engineering Mathematics ^1</td>
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<tr>
<td>PHYS 208</td>
<td>Electricity and Optics ^1</td>
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<td>University Core Curriculum ^2</td>
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</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>33</strong></td>
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</tbody>
</table>

^1 A grade of C or better is required.
^2 Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
^3 Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
^4 BMEN, CHEN and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/111 or CHEM 107/ CHEM 117 and CHEM 102/112; Credit by Examination (CBE) for CHEM 101/111 or CHEM 107/117 plus CHEM 102/ CHEM 112; or 6 hours of CBE for CHEM 101/111 or CHEM 107/117 and CHEM 102/112.

Second Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>CVEN 207</td>
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<tr>
<td>CVEN 221</td>
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<tr>
<td>MATH 251</td>
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<tr>
<td>STAT 211</td>
</tr>
<tr>
<td>COMM 205 or ENGL 210</td>
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<td>University Core Curriculum ^3</td>
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<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization</td>
</tr>
<tr>
<td>CVEN 302</td>
<td>Applications in Civil Engineering Design</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Computer Applications in Engineering and Construction</td>
</tr>
<tr>
<td>CVEN 305</td>
<td>Civil Engineering Measurement</td>
</tr>
<tr>
<td>CVEN 306</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Materials Engineering for Civil Engineers</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
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Third Year

<table>
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<tbody>
<tr>
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<td>CVEN 311</td>
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<td>CVEN 322</td>
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<tr>
<td>CVEN 345</td>
</tr>
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<td>CVEN 363</td>
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<td>Technical elective ^5</td>
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<table>
<thead>
<tr>
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<th>Semester Credit Hours</th>
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Select one of the following:

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAEN 320 Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECEN 215 Principles of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MEEN 315 Principles of Thermodynamics</td>
<td>3</td>
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</tbody>
</table>

Technical elective 5

University Core Curriculum 3

**Total Semester Credit Hours:** 15

**Fourth Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CVEN 424 Civil Engineering Professional Practice</td>
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Technical elective 6

University Core Curriculum 3

**Term Semester Credit Hours:** 17

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGR 482/PHIL 482 Ethics and Engineering</td>
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</table>

Technical elective 5

University Core Curriculum 3

**Term Semester Credit Hours:** 15

**Total Semester Credit Hours:** 95

---

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics and engineering courses taken to satisfy degree requirements.

**Total Program Hours 128**

**Coastal and Ocean Engineering Track - Technical Electives**

Technical electives for the BS in Civil Engineering, Coastal and Ocean Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (13 semester credit hours), FOCUS courses (13 semester credit hours), and a CAPSTONE DESIGN course (4 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

**SCIENCE Course (3 Semester Credit Hours Required)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCNG 401 Interdisciplinary Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>or OCNG 410 Introduction to Physical Oceanography</td>
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</table>

**BREADTH Courses (13 Semester Credit Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CVEN 365 Introduction to Geotechnical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 444 Structural Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>or CVEN 446 Structural Steel Design</td>
<td>3</td>
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Choose 4 Semester Credit Hours From:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>OCEN 339 Fluid Dynamics Laboratory</td>
<td>3</td>
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<tr>
<td>OCEN 362 Hydromechanics</td>
<td>3</td>
</tr>
<tr>
<td>OCEN 410 Ocean Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 339 Water Resources Engineering</td>
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Choose 3 Semester Credit Hours From:

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<thead>
<tr>
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<tbody>
<tr>
<td>CVEN 301 Environmental Engineering</td>
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<tr>
<td>CVEN 307 Transportation Engineering</td>
<td>3</td>
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<tr>
<td>CVEN 342 Materials of Construction</td>
<td>3</td>
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<tr>
<td>CVEN 343 Portland Cement Concrete Materials for Civil Engineers</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 349 Civil Engineering Project Management</td>
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**FOCUS Courses (13 Semester Credit Hours Required)**

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>OCEN 300 Ocean Engineering Wave Mechanics</td>
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<td>OCEN 481 Seminar</td>
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Choose 9 Semester Credit Hours From:

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<tbody>
<tr>
<td>OCEN 400 Basic Coastal Engineering</td>
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<tr>
<td>OCEN 401 Underwater Acoustics for Ocean Engineers</td>
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<tr>
<td>OCEN 402 Principles of Naval Architecture</td>
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<tr>
<td>OCEN 403 Dynamics of Offshore Structures</td>
<td>1</td>
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<tr>
<td>OCEN 407 Design of Ocean Engineering Facilities</td>
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<tr>
<td>OCEN 408 Underwater and Moored System Design</td>
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<tr>
<td>OCEN 410 Ocean Engineering Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>OCEN 475 Environmental Fluid Mechanics</td>
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<td>CVEN 402 Engineered Environmental Systems</td>
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<td>CVEN 403 Applied Civil Engineering Surveying</td>
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<td>CVEN 405 Construction Management of Field Operations</td>
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<td>CVEN 406 Environmental Protection and Public Health</td>
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<tr>
<td>CVEN 423 Geomatics for Civil Engineering</td>
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<td>CVEN 435 Geotechnical Engineering Design</td>
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<td>CVEN 445 Matrix Methods of Structural Analysis</td>
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<td>CVEN 458 Hydraulic Engineering of Water Distribution Systems</td>
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<td>CVEN 473 Engineering Project Estimating and Planning</td>
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**CAPSTONE DESIGN Course (4 Semester Credit Hours Required)**

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<th>Course</th>
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<tr>
<td>OCEN 407 Design of Ocean Engineering Facilities</td>
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1 Among these 9 semester credit hours, students must take at least one of the following: OCEN 400, OCEN 402, OCEN 403.

2 CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.

---

Please see attachment for revised track curriculum.
SCIENCE Course (3 Semester Hours Required)
OCNG 401   Interdisciplinary Oceanography 3
or OCNG 410 or Introduction to Physical Oceanography

BREADTH Courses (10-11 Semester Hours Required)
CVEN 365   Intro. To Geotechnical Engineering 3
CVEN 444   Structural Concrete Design 3
or CVEN 446 or Structural Steel Design

Choose 3 Semester Credit Hours From:
CVEN 301   Environmental Engineering 3
CVEN 339   Water Resources Engineering 3
CVEN 342   Materials of Construction 3
CVEN 343   Portland Cement Concrete Materials
            for Civil Engineers 3
CVEN 349   Civil Engineering Project Management 3

Choose 1-2 Semester Credit Hours From:
OCEN 336   Fluid Dynamics Laboratory 1
OCEN 410   Ocean Engineering Laboratory 1

FOCUS Courses (16 Semester Hours Required)
OCEN 300   Ocean Engineering Wave Mechanics 3
OCEN 481   Seminar 1

Choose 6 Semester Credit Hours From:
OCEN 400   Basic Coastal Engineering 3
OCEN 402   Principles of Naval Architecture 3
OCEN 403   Dynamics of Offshore Structures 3
OCEN 475   Environmental Fluid Mechanics 3

Choose 6 Semester Credit Hours From:
OCEN 362   Hydromechanics 3
OCEN 400   Basic Coastal Engineering 3
OCEN 401   Underwater Acoustics for Ocean Engineers 3
OCEN 402   Principles of Naval Architecture 3
OCEN 403   Dynamics of Offshore Structures 3
OCEN 408   Underwater and Moored System Design 3
OCEN 475   Environmental Fluid Mechanics 3
CVEN 402   Engineered Environmental Systems 3
CVEN 405   Construction Mgmt. of Field Operations 3
CVEN 423  Geomatics for Civil Engineering  3
CVEN 435  Geotechnical Engineering Design  3
CVEN 445  Matrix Methods of Structural Analysis  3
CVEN 458  Hydraulic Eng. of Water Dist. Systems  3
CVEN 473  Engineering Project Est. & Planning  3

**CAPSTONE DESIGN Course (3-4 Semester Hours Required)**

CVEN 400  Design Problems in Civil Engineering  3
or OCEN 407  or Design of Ocean Engineering Facilities  4

1 The sum of semester credit hours of Breadth and Capstone Design courses must be at least 14.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: BS CVEN-Coastal & Ocean Engr
Campus: College Station
College: Dwight Look College of Engr
Degree: Bachelor of Science
Level: Undergraduate
Majors: Civil Engineering
Departments: Civil Engineering

Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date:
Request Number: 9
Results as of: Sep 30, 2015

Met Credits Courses

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<th>Used</th>
<th>Required</th>
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Program GPA: Yes
Overall GPA: No

Other Course Information
Transfer:

This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met
Description: Must have a grade of 'C' or better in all area coursework.

Met Conditions Rule Subject Attribute Low High Required Term Subject Course Title Attribute C Credits Courses

No A CVEN 207 1hr
No AND B CVEN 221 3hrs
No AND C CVEN 302 3hrs
No AND D CVEN 303 3hrs
No AND E CVEN 305 3hrs
No AND F CVEN 306 3hrs
No AND G CVEN 311 3hrs
No AND H CVEN 322 3hrs
No AND I CVEN 345 3hrs
No AND J CVEN 363 3hrs
No AND K CVEN 424 2hrs
No AND L ENGR 111 2hrs
No AND M ENGR 112 2hrs
No AND N CVEN 250 2hrs
No AND O Engineering Rqmt 3hrs

Select from BAEN 320; ECEN 215; MEEN 315.

--- Add: Rule P. CVEN 399 0hrs

Total Credits and GPA:

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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<th>Subject</th>
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<td>B. MATH 251 3hrs</td>
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<td>C. STAT 211 3hrs</td>
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Total Credits and GPA

unofficial evaluation

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<th>Course Title</th>
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<th>Courses</th>
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<tbody>
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<td>AND</td>
<td>B. Breadth Elect I 3hrs</td>
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<td>Add CVEN 339</td>
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<tr>
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<td>AND</td>
<td>D. Breadth Elect III 3hrs</td>
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<tr>
<td>No</td>
<td>E. OCEN 300 3hrs</td>
<td>No</td>
<td>AND</td>
<td>F. OCEN 401 1hr</td>
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<tr>
<td>No</td>
<td>G. Focus Elect I 3hrs</td>
<td>No</td>
<td>AND</td>
<td>H. Focus Elect II 6hrs</td>
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<td>Add OCEN 475</td>
<td>Remove 403-404</td>
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<tr>
<td>No</td>
<td>I. OCEN 407 4hrs</td>
<td>No</td>
<td>AND</td>
<td>J. Science Elect 3hrs</td>
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<td>Add OCEN 362</td>
<td>Oceanography, not OCEN</td>
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Total Credits and GPA

unofficial evaluation

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<tr>
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<th>High</th>
<th>Required</th>
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<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A. ENGL 104</td>
<td>No</td>
<td></td>
<td>Must have a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. Communication Rqmt 3hrs</td>
<td>Select from ENGL 210; COMM 205.</td>
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Total Credits and GPA 0.000

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption 9/30/2015
unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Mathematics (8.000 credits) - Not Met</th>
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<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Life and Physical Sciences (12.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Description: Must have a grade of 'C' or better in all area coursework.</td>
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<tr>
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</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
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<tr>
<td>No</td>
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</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Language, Philosophy &amp; Culture (3.000 credits) - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description: Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Creative Arts (3.000 credits) - Not Met</th>
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<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Social and Behavioral Sciences (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Select from courses with the Social and Behavioral Science attribute [KSOC].</td>
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</tbody>
</table>
unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Citizenship (12.000 credits) - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.</td>
</tr>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>No</td>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Work Not Applied - Met</th>
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<tbody>
<tr>
<td>Description: See advisor for acceptable substitutions.</td>
</tr>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<td>No</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: University Writing Requirement - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Int'l &amp; Cult Diversity - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
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unofficial evaluation
### Area: Foreign Language - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Condition</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Foreign Language Rqmt</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Complete one of the following:</td>
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<tr>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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<tr>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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</tr>
</tbody>
</table>

Total Credits and GPA 0.000

unofficial evaluation

### Area: Residence Requirement - Not Met

**Description:** A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University, 12 hours must be in the major field.

<table>
<thead>
<tr>
<th>No</th>
<th>Condition</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Residence-Major 12hrs</td>
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<tr>
<td></td>
<td></td>
<td>Select from CVEN 300-499.</td>
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<td></td>
<td>B.</td>
<td>Residence 300-499 24hrs</td>
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<td></td>
<td></td>
<td>Select any courses level 300-499.</td>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

### Area: GPR-Major - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Condition</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Major GPR 38+hrs</td>
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<tr>
<td></td>
<td></td>
<td>Includes: AGEN 320; BAEN 320; CVEN 100-499; ECEN 215; ENSR 111-112, 482; MEEN 315, 363; OCEN 200-499; PHIL 482.</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

**Back to Display Options**

[Print](#)
CHANGE IN CURRICULUM

Dwight Look College of Engineering
Department of Civil Engineering
BS in Civil Engineering - Construction Engineering & Management Track
Texas A&M University  
Request for a Change in Curriculum  
Undergraduate • Graduate • Professional

1. Program request type:  
☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  
☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  
Zachry Department of Civil Engineering

4. Program Designation and Name  
(e.g., B.A. in History, Minor in History, Certificate in European Union):  
B.S. in Civil Engineering - Construction Engineering & Management

5. Brief description of change:  
Addition of 1 required course: CVEN 399.

6. Rationale for change:  
CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  
☑ Yes  ☐ No

   b. Current catalog curriculum with handwritten edits attached.  
☑ Yes  ☐ No

   c. Current Howdy degree evaluation with handwritten edits attached.  
☑ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
☐ Yes  ☑ No

   b. If yes, degree program hours will change  from: ________ to: ________

   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
☐ Yes  ☐ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  
☐ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:  
Robin Autenrieth  
Department Head or Program Chair (Type Name & Sign)  
Date  
10-2-15

Dean of College  
Date

Chair, College Review Committee  
Date

Chair, GC or UCC  
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.orlowski@tamu.edu.  
Curricular Services • 04/14

RECEIVED  
OCT 1 2 2015

EASA
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
<th>Second Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
<td>(3-0)</td>
<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>(1-3)</td>
<td>2</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
<td>(0-3)</td>
<td>1</td>
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<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>(3-2)</td>
<td>4</td>
<td>ENGR 112 Foundations in Engr. II</td>
<td>(1-3)</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 218 Mechanics</td>
<td>(3-3)</td>
<td>4</td>
<td>MATH 152 Engineering Mathematics II</td>
<td>(3-2)</td>
<td>4</td>
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<td>University Core Curriculum Elective</td>
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<td></td>
<td>PHYS 208 Electricity and Optics</td>
<td>(3-3)</td>
<td>4</td>
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<td></td>
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<td></td>
<td>University Core Curriculum Elective</td>
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<td>3</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
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## SOPHOMORE YEAR

| CVEN 207 Intro to the Civil Engrg Prof. | (1-0) | 1 | CVEN 250 Graphics & Visualiz. in Civil Eng. | (1-3) | 2 |
| CVEN 221 Engr. Mech.: Statics         | (2-2) | 3 | CVEN 302 Computer Applications            | (3-0) | 3 |
| MATH 251 Engineering Mathematics III  | (3-0) | 3 | CVEN 303 Civil Engr. Measurement          | (2-3) | 3 |
| STAT 211 Principles of Statistics I   | (3-0) | 3 | CVEN 305 Engr Mech. of Materials          | (3-0) | 3 |
| University Core Curriculum Elective   |         | | CVEN 306 Materials for Civil Engineers    | (2-2) | 3 |
| ENGL 210 or COMM 205                 |         | | MATH 308 Differential Equations           | (3-0) | 3 |
|                                    |         | |                                     | 16      | 17 |

## JUNIOR YEAR

| CVEN 311 Fluid Dynamics              | (3-0) | 3 | CVEN 399 Mid-Curriculum Prof. Development | (0-0) | 0 |
| CVEN 322 Civil Engineering Systems II| (3-0) | 3 | MEEN 315, ELEN 215, or BAEN 320          | (2-2) | 3 |
| CVEN 345 Theory of Structures        | (3-0) | 3 | Technical Electives                      |         | 9 |
| CVEN 363 Engr Mech: Dynamics         | (2-2) | 3 | University Core Curriculum Elective       |         | 3 |
| Technical Elective                   |         | |                                     | 15      | 15 |

## SENIOR YEAR

| CVEN 424 Civil Engineering Prof. Practice | (1-2) | 2 | ENGR/PHIL 482 Ethics and Engineering | (2-2) | 3 |
| Technical Electives                   |       | | Technical Electives                   |         | 12 |
| University Core Curriculum Elective    |       | |                                     | 3       |      |
|                                    |       | |                                     | 17      | 15 |

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Construction Engineering and Management Track

The Construction Engineering and Management Track to fulfill the BS in Civil Engineering degree emphasizes specialized coursework in the fundamentals of construction engineering and project management. The Track blends the principles of basic science, engineering, and technology with a strong component of business coursework. The Track is appropriate for students interested in a career in the construction industry.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric 1</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering I 1</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I 1.2</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics 1</td>
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<tr>
<td>University Core Curriculum 3</td>
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| Term Semester Credit Hours | 16 |

<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students 1.4</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory 1</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundations of Engineering II 1</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Engineering Mathematics II 1</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics 1</td>
</tr>
<tr>
<td>University Core Curriculum 3</td>
<td></td>
</tr>
</tbody>
</table>

| Term Semester Credit Hours | 17 |

Total Semester Credit Hours: 33

1. A grade of C or better is required.
2. Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.

4. BMEN, CHEN and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/CHEN 111 or CHEM 107/CHEN 117 and CHEM 102/CHEN 112; Credit by Examination (CBE) for CHEM 101/CHEN 111 or CHEM 107/CHEN 117 plus CHEM 102/CHEN 112, or 8 hours of CBE for CHEM 101/CHEN 111 or CHEM 107/CHEN 117 and CHEM 102/CHEN 112.

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
</tr>
<tr>
<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Engineering Mathematics III</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
</tr>
<tr>
<td>COMM 205 or ENGL 210</td>
<td>Communication for Technical Professions</td>
</tr>
<tr>
<td>or Technical and Business Writing</td>
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</tr>
<tr>
<td>University Core Curriculum 3</td>
<td></td>
</tr>
</tbody>
</table>

| Term Semester Credit Hours | 16 |

<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
</tr>
<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
</tr>
<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>CVEN 308</td>
<td>Materials Engineering for Civil Engineers</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
</tr>
</tbody>
</table>

| Term Semester Credit Hours | 17 |

Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 311</td>
<td>Fluid Dynamics</td>
</tr>
<tr>
<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
</tr>
<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
</tr>
<tr>
<td>CVEN 353</td>
<td>Engineering Mechanics: Dynamics</td>
</tr>
</tbody>
</table>

| Technical elective 5 | | 3 |

| Term Semester Credit Hours | 15 |

<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

| University Core Curriculum 3 | | 3 |

| Term Semester Credit Hours | 16 |
Select one of the following:

BAEN 320  Engineering Thermodynamics
ECEN 215  Principles of Electrical Engineering
MEEN 315  Principles of Thermodynamics

Technical elective 5  9
University Core Curriculum 3  3

Term Semester Credit Hours 15

Fourth Year
Fall
CVEN 424  Civil Engineering Professional Practice 6
Technical elective 5  2
University Core Curriculum 3  12

Term Semester Credit Hours 17

Spring
ENGR 482/PHIL 482  Ethics and Engineering 6
Technical elective 5  3
University Core Curriculum 3  9

Term Semester Credit Hours 15

Total Semester Credit Hours: 95

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics and engineering courses taken to satisfy degree requirements.

Total Program Hours 128

Construction Engineering and Management Track - Technical Electives

Technical electives for the BS in Civil Engineering, Construction Engineering and Management Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (18 semester credit hours), FOCUS courses (9 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

SCIENCE Course (3 Semester Credit Hours Required)

GEOL 320  Geology for Civil Engineers

BREADTH Courses (18 Semester Credit Hours Required)

CVEN 307  Transportation Engineering
CVEN 342  Materials of Construction
or CVEN 343  Portland Cement Concrete Materials for Civil Engineers
CVEN 349  Civil Engineering Project Management
CVEN 365  Introduction to Geotechnical Engineering
CVEN 444  Structural Concrete Design
CVEN 446  Structural Steel Design

FOCUS Courses (9 Semester Credit Hours Required)

CVEN 405  Construction Management of Field Operations
CVEN 473  Engineering Project Estimating and Planning
Choose 3 Semester Credit Hours From:
CVEN 403  Applied Civil Engineering Surveying 1
MGMT 309  Survey of Management
STAT 212  Principles of Statistics II

CAPSTONE DESIGN Course (3 Semester Credit Hours Required)

CVEN 400  Design Problems in Civil Engineering

1 CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.
Detail Requirements

Information for Degree Evaluation
☐ This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: BS CVEN-Construction Engr Mgmt

Catalog Term: Fall 2015 - College Station

Evaluation Term: Fall 2015 - College Station

Expected Graduation Date: 

Request Number: 10

Results as of: Sep 30, 2015

Minors: Concentrations:

<table>
<thead>
<tr>
<th>Met Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>Required</td>
<td>Used</td>
</tr>
<tr>
<td>Total Required:</td>
<td>No 128.000</td>
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<tr>
<td>Program GPA:</td>
<td>Yes .00</td>
</tr>
<tr>
<td>Overall GPA:</td>
<td>No 2.00</td>
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</table>

Other Course Information

Transfer: 0.000 0

This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met

Description: Must have a grade of "C" or better in all area coursework.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No A CVEN 207 1hr
No AND B CVEN 221 3hrs
No AND C CVEN 302 3hrs
No AND D CVEN 303 3hrs
No AND E CVEN 305 3hrs
No AND F CVEN 306 3hrs
No AND G CVEN 311 3hrs
No AND H CVEN 322 3hrs
No AND I CVEN 345 3hrs
No AND J CVEN 363 3hrs
No AND K CVEN 424 2hrs
No AND L ENGR 111 2hrs
No AND M ENGR 112 2hrs
No AND N CVEN 250 2hrs
No AND O Engineering Rqmt 3hrs

Select from BAEN 320; ECEN 215; MEEN 315.

Add: Rule P CVEN 399 0hrs

Total Credits and GPA

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Supporting Coursework (9.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Description</td>
<td>Must have a grade of 'C' or better in all area coursework.</td>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. MATH 308 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND B. MATH 251 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND C. STAT 211 3hrs</td>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Additional Coursework (33.000 credits) - Not Met</th>
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<tbody>
<tr>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. CVEN 307 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND B. CVEN 349 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND C. CVEN 365 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND D. CVEN 400 3hrs</td>
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<tr>
<td>No</td>
<td>AND E. CVEN 405 3hrs</td>
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<td>No</td>
<td>AND F. CVEN 444 3hrs</td>
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<tr>
<td>No</td>
<td>AND G. CVEN 446 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND H. CVEN 473 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND I. GEOL 320 3hrs</td>
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<tr>
<td>No</td>
<td>AND J. Breadth Elect. 3hrs</td>
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<tr>
<td>No</td>
<td>AND K. Focus Elect 3hrs</td>
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<td></td>
<td>Select from CVEN 342-343.</td>
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<td></td>
<td>Select from CVEN 403; MGMT 309; STAT 212.</td>
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Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Communication (6.000 credits) - Not Met</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>No</td>
<td>A. ENGL 104</td>
</tr>
<tr>
<td></td>
<td>Must have a grade of 'C' or better.</td>
</tr>
<tr>
<td>No</td>
<td>AND B. Communication Rqmnt 3hrs</td>
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<tr>
<td></td>
<td>Select from ENGL 210; COMM 205.</td>
</tr>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

| Area | Mathematics (8.000 credits) - Not Met |

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
## Description:
Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>C Credits</th>
<th>Courses</th>
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<td>151</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>MATH</td>
<td>152</td>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

---

## Area:
Life and Physical Sciences (12,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Description: Must have a grade of 'C' or better in all area coursework.</th>
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<tbody>
<tr>
<td>Met</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

---

## Area:
Language, Philosophy & Culture (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Description: Must have a grade of 'C' or better in all area coursework.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
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<tr>
<td>-----</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

---

## Area:
Creative Arts (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>C Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

---

## Area:
Social and Behavioral Sciences (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>C Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Social Science Rqmt 3hrs</td>
<td>Select from courses with the Social and Behavioral Science attribute [KSOCC].</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation
### Citizenship (12,000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

**Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses**

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>American History Rqmt 6hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>B.</th>
<th>Political Science Rqmt 6hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Take POLS 206 and POLS 207.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**

unofficial evaluation

### Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

**Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses**

| No | A. | Courses not applied |

**Total Credits and GPA**

unofficial evaluation

### University Writing Requirement - Not Met

**Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses**

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Writing Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two courses required. Must make grade of 'C' or better. Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

### Int'l & Cult Diversity - Not Met

**Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses**

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Int'l &amp; Cultural Diversity 6hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

### Foreign Language - Not Met

**Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses**

| No | A. | Foreign Language Rqmt |

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9/30/2015
**Detail Requirements**

Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

### Unofficial Evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence-Major 12hrs</td>
</tr>
<tr>
<td></td>
<td>Select from CVEN 300-499.</td>
</tr>
<tr>
<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
</tr>
<tr>
<td></td>
<td>Select any courses level 300-499.</td>
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</table>

### Unofficial Evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>GPR-Major - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Major GPR 61+hrs</td>
</tr>
<tr>
<td></td>
<td>Includes: AGEN 320; BAEN 320; CVEN 100-499; ECEN 215; ENGR 111-112, 482; MEEN 315, 363; PHIL 482.</td>
</tr>
</tbody>
</table>

### Unofficial Evaluation

**Back to Display Options**

1

**Print**

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9/30/2015
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - ENVIRONMENTAL ENGINEERING TRACK
Texas A&M University  
Request for a Change in Curriculum  
Undergraduate • Graduate • Professional  

1. Program request type:  
☑ Undergraduate  ❑ Graduate  ❑ First Professional (e.g., DVM, JD, MD, etc.)  

2. Request change for:  
☑ Degree Program  ❑ Minor  ❑ Certificate  

3. Request submitted by (Department or Program Name):  
Zachry Department of Civil Engineering  

4. Program Designation and Name  
(e.g., B.A. in History, Minor in History, Certificate in European Union):  
B.S. in Civil Engineering - Environmental Engineering  

5. Brief description of change:  
(1) Addition of 1 required course: CVEN 399.  
(2) Addition of 1 elective option: CVEN 462.  

6. Rationale for change:  
(1) CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.  
(2) CVEN 462 is a newly approved course.  

---  

Use the checkboxes below to make sure that all information is included.  

7. a. Proposed curriculum attached.  
☑ Yes  ❑ No  

7. b. Current catalog curriculum with handwritten edits attached.  
☑ Yes  ❑ No  

☑ Yes  ❑ No  

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.  

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
☐ Yes  ☑ No  

8. b. If yes, degree program hours will change from: _________ to: _________  

8. c. If yes, is the Texas Higher Education Coordinating Board form attached?  
☐ Yes  ☐ No  

http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  

9. If proposed changes affect other unit(s), are letters of support attached?  
☐ Yes  ☐ No  

---  

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.  

---  

Approval recommended by:  

Robin Autenrieth  
Department Head or Program Chair (Type Name & Sign)  
Date  

Dean of College  
Date  

Chair, College Review Committee  
Date  

Chair, GC or UCC  
Date  

---  

Questions regarding this form should be directed to Curricular Services at 845-8201 or santha-willis@tamu.edu.  
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
<th>Second Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
<td>(3-0)</td>
<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>(1-3)</td>
<td>2</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
<td>(0-3)</td>
<td>1</td>
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<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>(3-2)</td>
<td>4</td>
<td>ENGR 112 Foundations in Engr. II</td>
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<tr>
<td>PHYS 218 Mechanics</td>
<td>(3-3)</td>
<td>4</td>
<td>MATH 152 Engineering Mathematics II</td>
<td>(3-2)</td>
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<td>University Core Curriculum Elective</td>
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<td>3</td>
<td>PHYS 208 Electricity and Optics</td>
<td>(3-3)</td>
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<td>University Core Curriculum Elective</td>
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## SOPHOMORE YEAR

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<th>(Cr)</th>
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<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
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<td>CVEN 221 Engr. Mech.: Statics</td>
<td>(2-2)</td>
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<td>MATH 251 Engineering Mathematics III</td>
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<td>STAT 211 Principles of Statistics I</td>
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<td>University Core Curriculum Elective</td>
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<tr>
<td>ENGL 210 or COMM 205</td>
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## JUNIOR YEAR

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<th>(Cr)</th>
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<tbody>
<tr>
<td>CVEN 311 Fluid Dynamics</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 322 Civil Engineering Systems II</td>
<td>(3-0)</td>
<td>3</td>
</tr>
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<td>CVEN 345 Theory of Structures</td>
<td>(3-0)</td>
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</tr>
<tr>
<td>CVEN 363 Engr Mech: Dynamics</td>
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<tr>
<td>Technical Elective</td>
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</tbody>
</table>

## SENIOR YEAR

<table>
<thead>
<tr>
<th></th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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</thead>
<tbody>
<tr>
<td>CVEN 424 Civil Engineering Prof. Practice</td>
<td>(1-2)</td>
<td>2</td>
</tr>
<tr>
<td>Technical Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>University Core Curriculum Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). CVEN 424 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Environmental Engineering Track

The Environmental Engineering Track to fulfill the BS in Civil Engineering degree emphasizes specialized coursework in water and waste water treatment, air and water quality management, solid and hazardous wastes, ground water protection and remediation, and environmental policy. The track is appropriate for those wishing to pursue careers in protecting the natural environment from human activities, protecting human populations from the effects of adverse environmental factors and improving the environmental quality for human health and well-being.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering I</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>Term Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundations of Engineering II</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Engineering Mathematics II</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>Term Semester Credit Hours</td>
<td>16</td>
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</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
</tr>
<tr>
<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Engineering Mathematics III</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
</tr>
<tr>
<td>COMM 205 or ENGL 210</td>
<td>Communication for Technical Professions or Technical and Business Writing</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>Term Semester Credit Hours</td>
<td>16</td>
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</tbody>
</table>

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
</tr>
<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
</tr>
<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>CVEN 306</td>
<td>Materials Engineering for Civil Engineers</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>Term Semester Credit Hours</td>
<td>17</td>
</tr>
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</table>

Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 311</td>
<td>Fluid Dynamics</td>
</tr>
<tr>
<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
</tr>
<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
</tr>
<tr>
<td>CVEN 363</td>
<td>Engineering Mechanics: Dynamics</td>
</tr>
</tbody>
</table>
Civil Engineering - BS, Environmental Engineering Track

<table>
<thead>
<tr>
<th>Term</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>15</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>BAEN 320</td>
<td>Engineering Thermodynamics</td>
</tr>
<tr>
<td>ECEN 215</td>
<td>Principles of Electrical Engineering</td>
</tr>
<tr>
<td>MEEN 315</td>
<td>Principles of Thermodynamics</td>
</tr>
<tr>
<td>Technical elective</td>
<td>9</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>CVEN 424</td>
<td>Civil Engineering Professional Practice</td>
</tr>
<tr>
<td>Technical elective</td>
<td>12</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 482/PHIL</td>
<td>Ethics and Engineering</td>
</tr>
<tr>
<td>482</td>
<td></td>
</tr>
<tr>
<td>Technical elective</td>
<td>9</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Semester Credit Hours: | 95 |

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics, and engineering courses taken to satisfy degree requirements.

Total Program Hours 128

Environmental Engineering Track - Technical Electives

Technical electives for the BS in Civil Engineering, Environmental Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (7-12 semester credit hours), FOCUS courses (15-20 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 399</td>
<td>Mid-Curriculum Professional Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Add: CVEN 462, Engineering Hydrology</td>
<td></td>
</tr>
<tr>
<td>CVEN 400</td>
<td>Design Problems in Civil Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Semester Credit Hours | 33 |

1 The sum of semester credit hours of Breadth and Focus courses must be at least 27.
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation: Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation: Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: BS CVEN-Environmental Engr
Campus: College Station
College: Dwight Look College of Engr
Degree: Bachelor of Science
Level: Undergraduate
Majors: Civil Engineering
Departments: Civil Engineering

Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: Request Number: 7
Results as of: Sep 30, 2015
Concentrations:

<table>
<thead>
<tr>
<th>Met</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Required:</td>
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<td>128.000</td>
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<tr>
<td>Program GPA:</td>
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<tr>
<td>Overall GPA:</td>
<td>No</td>
<td>2.00</td>
</tr>
<tr>
<td>Other Course Information</td>
<td>Transfer</td>
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</table>

This is NOT an official evaluation.

Area: Major Coursework (39,000 credits) - Not Met
Description: Must have a grade of "C" or better in all area coursework.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C
Credits Courses

No A. CVEN 207 1hr
No AND B. CVEN 221 3hrs
No AND C. CVEN 302 3hrs
No AND D. CVEN 303 3hrs
No AND E. CVEN 305 3hrs
No AND F. CVEN 306 3hrs
No AND G. CVEN 311 3hrs
No AND H. CVEN 322 3hrs
No AND I. CVEN 345 3hrs
No AND J. CVEN 363 3hrs
No AND K. CVEN 424 2hrs
No AND L. ENGR 111 2hrs
No AND M. ENGR 112 2hrs
No AND N. CVEN 250 2hrs
No AND O. Engineering Reqmt 3hrs

Select from BAEN 320; ECEN 215; MEEN 315.

C Add: Rule P. CVEN 399 0hrs

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### Unofficial Evaluation

**Area:** Supporting Coursework (9.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td></td>
<td>MATH 308</td>
<td>3hrs</td>
<td></td>
<td></td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td></td>
<td>MATH 251</td>
<td>3hrs</td>
<td></td>
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<tr>
<td>No</td>
<td>AND</td>
<td>C.</td>
<td></td>
<td>STAT 211</td>
<td>3hrs</td>
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### Unofficial Evaluation

**Area:** Additional Coursework (33.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
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<td>A.</td>
<td></td>
<td>CVEN 301</td>
<td>3hrs</td>
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<td>No</td>
<td>AND</td>
<td>B.</td>
<td></td>
<td>CVEN 339</td>
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<td>No</td>
<td>AND</td>
<td>C.</td>
<td></td>
<td>CVEN 400</td>
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<td>No</td>
<td>AND</td>
<td>D.</td>
<td>Breadth Elect.</td>
<td>6hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>E.</td>
<td>Focus Elect. I</td>
<td>6hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>F.</td>
<td>Focus Elect. II</td>
<td>6hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>G.</td>
<td>Focus Elect. III</td>
<td>3hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>H.</td>
<td>MATH/Science</td>
<td>3hrs</td>
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</tbody>
</table>

Total Credits and GPA

### Unofficial Evaluation

**Area:** Communication (6.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>ENGL 104</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Must have a grade of 'C' or better.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Communication Rqmt</td>
<td>3hrs</td>
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<td></td>
<td></td>
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</table>

Total Credits and GPA

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Total Credits and GPA

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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Mathematics (8.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description: Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
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</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Life and Physical Sciences (12.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description: Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>No</td>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Language, Philosophy &amp; Culture (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description: Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Creative Arts (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Social and Behavioral Sciences (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Social and Behavioral Sciences (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Social and Behavioral Sciences (3.000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA

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unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No
A. American History Reqmt 6hrs
Select from any course with the [KH15] attribute.

No AND
B. Political Science Reqmt 6hrs
Take POLS 206 and POLS 207.

unofficial evaluation

Area: Work Not Applied - Met
Description: See advisor for acceptable substitutions.
Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No
A. Courses not applied

unofficial evaluation

Area: University Writing Requirement - Not Met
Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No
A. Writing Requirement
Two courses required.
Must make grade of 'C' or better.
Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met
Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No
A. Int'l & Cultural Diversity 6hr
Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

unofficial evaluation

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 9/30/2015
### Area: Foreign Language - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foreign Language Reqmt</td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000

---

### Area: Residence Requirement - Not Met

**Description**: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

<table>
<thead>
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<th>No</th>
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<th>Requirement</th>
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<tbody>
<tr>
<td></td>
<td>Residence-Major 12hrs</td>
<td>Select from CVEN 300-499.</td>
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<table>
<thead>
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<th>AND</th>
<th>B.</th>
<th>Requirement</th>
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<tbody>
<tr>
<td></td>
<td>Residence 300-499 24hrs</td>
<td>Select any courses level 300-499.</td>
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**Total Credits and GPA**: 0.000

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### Area: GPR-Major - Not Met

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<td>Major GPR 52+hrs</td>
<td>Select from AGEN 320; BAEN 326; CVEN 100-499; ECEN 215; ENGR 111-112, 482; MEEN 315, 363; PHIL 482.</td>
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</table>

**Total Credits and GPA**: 0.000

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**Back to Display Options**

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CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - GENERAL CIVIL ENGINEERING TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: [✓] Undergraduate  [ ] Graduate  [ ] First Professional (e.g., DPM, JD, MD, etc.)
   [✓] Degree Program  [ ] Minor  [ ] Certificate

2. Request change for:

3. Request submitted by (Department or Program Name):
   Zachry Department of Civil Engineering

4. Program Designation and Name:
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Civil Engineering - General Civil Engineering

5. Brief description of change:
   (1) Addition of 1 required course: CVEN 399.
   (2) Addition of 1 elective option: CVEN 462.

6. Rationale for change:
   (1) CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.
   (2) CVEN 462 is a newly approved course.

7. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached. [✓] Yes  [ ] No
   b. Current catalog curriculum with handwritten edits attached. [✓] Yes  [ ] No
   c. Current Howdy degree evaluation with handwritten edits attached. [✓] Yes  [ ] No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  [ ] Yes  [✓] No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?  [ ] Yes  [ ] No

   http://www.thecb.state.tx.us/index.cfm?objectid=A09F97FF-9A92-4F11-2756AD3BBFF91D60

9. If proposed changes affect other unit(s), are letters of support attached?  [ ] Yes  [ ] No

   IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC,
   January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University
   should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

   Approval recommended by:
   Robin Autenrieth
   Department Head or Program Chair (Type Name & Sign)  Date
   Dean of College  Date
   Chair, College Review Committee  Date
   Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<th>(Cr)</th>
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<th>(Cr)</th>
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<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
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<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
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<tr>
<td>ENGR 111 Foundations in Engr. I</td>
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<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
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<tr>
<td>MATH 151 Engineering Mathematics I</td>
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<td>ENGR 112 Foundations in Engr. II</td>
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<tr>
<td>PHYS 218 Mechanics</td>
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<td>MATH 152 Engineering Mathematics II</td>
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<td>University Core Curriculum Elective¹</td>
<td></td>
<td></td>
<td>PHYS 208 Electricity and Optics</td>
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<td>ENGL 210 or COMM 205</td>
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## SOPHOMORE YEAR

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<th>(Cr)</th>
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<tbody>
<tr>
<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
<td>(1-0)</td>
<td>1</td>
<td>CVEN 250 Graphics &amp; Visualiz. in Civil Eng.</td>
<td>(1-3)</td>
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<tr>
<td>CVEN 221 Engr. Mech.: Static</td>
<td>(2-2)</td>
<td>3</td>
<td>CVEN 302 Computer Applications</td>
<td>(3-0)</td>
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<tr>
<td>MATH 251 Engineering Mathematics III</td>
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<td>CVEN 303 Civil Engr. Measurement</td>
<td>(2-3)</td>
<td>3</td>
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<tr>
<td>STAT 211 Principles of Statistics I</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 305 Engr Mech. of Materials</td>
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<td>CVEN 306 Materials for Civil Engineers</td>
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<td>MATH 308 Differential Equations</td>
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<th>(Cr)</th>
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<tr>
<td>CVEN 311 Fluid Dynamics</td>
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<td>CVEN 399 Mid-Curr. Prof. Development (0-0)</td>
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<tr>
<td>CVEN 322 Civil Engineering Systems II</td>
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<td>MEEN 315, ELEN 215, or BAEN 320</td>
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<td>CVEN 345 Theory of Structures</td>
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<td>Technical Electives³</td>
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<td>CVEN 363 Engr Mech. Dynamics</td>
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<td>University Core Curriculum Elective¹</td>
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## SENIOR YEAR

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<th>(Cr)</th>
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<tr>
<td>CVEN 424 Civil Engineering Prof. Practice³</td>
<td>(1-2)</td>
<td>2</td>
<td>ENGR/PHIL 482 Ethics and Engineering⁴</td>
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<td>Technical Electives³</td>
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<tr>
<td>University Core Curriculum Elective³</td>
<td></td>
<td>3</td>
<td></td>
<td>17</td>
<td>15</td>
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</tbody>
</table>

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, General Civil Engineering Track

The General Civil Engineering Track to fulfill the BS in Civil Engineering degree emphasizes breadth across the civil engineering field. Students take courses in all major sub-disciplines of civil engineering with an advanced focus elective allowing deeper learning in one area. The track is appropriate for a career in any area of civil engineering, with particular relevance for those interested in public works, land development, and general civil, and for those planning on further specialization in graduate studies.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

First Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
<th>University Core Curriculum 3</th>
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<tr>
<td>Fall</td>
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<table>
<thead>
<tr>
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<th>ENGL 104 Composition and Rhetoric 1</th>
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<tbody>
<tr>
<td></td>
<td>ENGR 111 Foundations of Engineering I 1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MATH 151 Engineering Mathematics I 1,2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHYS 218 Mechanics 1</td>
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<td>University Core Curriculum 3</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Term Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
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</table>

| Semester Credit Hours | ENGL 210 Electricity and Optics 1 | 4 |

| Spring               | CHEM 107 General Chemistry for Engineering Students 1,4 | 3 |
|                      | CHEM 117 General Chemistry for Engineering Students Laboratory 1 | 1 |
|                      | ENGR 112 Foundations of Engineering II 1 | 2 |
|                      | MATH 152 Engineering Mathematics II 1 | 4 |
|                      | PHYS 208 Engineering Mechanics: Dynamics 1 | 3 |
|                      | **Term Semester Credit Hours** | **17** |

Second Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
<th>CVEN 207 Introduction to the Civil Engineering Profession</th>
<th>1</th>
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<tbody>
<tr>
<td></td>
<td>CVEN 221 Engineering Mechanics: Statics</td>
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</tr>
<tr>
<td></td>
<td>MATH 251 Engineering Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>STAT 211 Principles of Statistics I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM 205 or ENGL 210 Communication for Technical Professions or Technical and Business Writing</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>University Core Curriculum</strong> 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Term Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
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</tbody>
</table>

| Spring               | CVEN 250 Introduction to Graphics and Visualization Applications in Civil Engineering Design | 2 |
|                      | CVEN 302 Computer Applications in Engineering and Construction | 3 |
|                      | CVEN 303 Civil Engineering Measurement | 3 |
|                      | CVEN 305 Mechanics of Materials | 3 |
|                      | CVEN 306 Materials Engineering for Civil Engineers | 3 |
|                      | MATH 308 Differential Equations | 3 |
|                      | **Term Semester Credit Hours** | **17** |

Third Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
<th>CVEN 311 Fluid Dynamics</th>
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<tr>
<td></td>
<td>CVEN 322 Civil Engineering Systems</td>
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<td></td>
<td>CVEN 345 Theory of Structures</td>
<td>3</td>
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<tr>
<td></td>
<td>CVEN 363 Engineering Mechanics: Dynamics</td>
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</table>
Civil Engineering - BS, General Civil Engineering Track

**Technical Electives**

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<tr>
<th>Term Semester Credit Hours</th>
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**Spring**

Select one of the following:

- BAEN 320 Engineering Thermodynamics
- ECEN 215 Principles of Electrical Engineering
- MEEN 315 Principles of Thermodynamics

Technical elective 5

University Core Curriculum 3

**Total Term Semester Credit Hours** 15

**Fourth Year**

**Fall**

CVEN 424 Civil Engineering Professional Practice 6

Technical elective 5

University Core Curriculum 3

**Total Term Semester Credit Hours** 17

**Spring**

ENGR 482/PHIL Ethics and Engineering 6

Technical elective 5

University Core Curriculum 3

**Total Term Semester Credit Hours** 15

**Total Semester Credit Hours** 95

---

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student's advisor and the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing intensive (W), ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics, and engineering courses taken to satisfy degree requirements.

**Total Program Hours 128**

**General Civil Engineering Track - Technical Electives**

Technical electives for the BS in Civil Engineering, General Civil Engineering Track are composed of a SCIENCE course (3 semester credit hours), a BREADTH course (24 semester credit hours), a FOCUS course (3 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>CVEN 400</td>
<td>Design Problems in Civil Engineering</td>
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</table>

CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.
Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation: Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

<table>
<thead>
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<th>Program</th>
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<tbody>
<tr>
<td>Campus</td>
<td>College Station</td>
</tr>
<tr>
<td>College</td>
<td>Dwight Look College of Engr</td>
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<td>Degree</td>
<td>Bachelor of Science</td>
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<td>Level</td>
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<tr>
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| Catalog Term       | Fall 2015 - College Station |
| Evaluation Term    | Fall 2015 - College Station |
| Expected Graduation Date | Sep 30, 2015 |

| Request Number | 5 |
| Results as of  | Sep 30, 2015 |
| Minors         | Concentrations |

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<td>Overall GPA</td>
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This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met
Description: Must have a grade of 'C' or better in all area coursework.

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<td>CVEN 221 3hrs</td>
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<td>CVEN 305 3hrs</td>
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<td>CVEN 363 3hrs</td>
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<td>Engineering Rqmt 3hrs</td>
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<td>Select from B AEN 320; ECEN 215; MEEN 315.</td>
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Add: Rule P. CVEN 399 0hrs

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption  9/30/2015
unofficial evaluation

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</tr>
<tr>
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</tr>
<tr>
<td>No</td>
<td>A. MATH 308 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND B. MATH 251 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND C. STAT 211 3hrs</td>
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Total Credits and GPA

unofficial evaluation

<table>
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<tr>
<th>Area</th>
<th>Additional Coursework (33.000 credits) - Not Met</th>
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<tr>
<td>No</td>
<td>A. CVEN 301 3hrs</td>
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<tr>
<td>No</td>
<td>AND B. CVEN 307 3hrs</td>
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<tr>
<td>No</td>
<td>AND C. CVEN 339 3hrs</td>
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<tr>
<td>No</td>
<td>AND D. CVEN 349 3hrs</td>
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<tr>
<td>No</td>
<td>AND E. CVEN 365 3hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND F. CVEN 400 3hrs</td>
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<td>AND G. CVEN 444 3hrs</td>
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<td>No</td>
<td>AND H. CVEN 446 3hrs</td>
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<tr>
<td>No</td>
<td>AND I. Breadth Elect. 3hrs</td>
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<tr>
<td>No</td>
<td>AND J. Focus Elect. 3hrs</td>
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<tr>
<td>No</td>
<td>AND K. Science Elect. 3hrs</td>
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Select from CVEN 342-343.


Add CVEN 462

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Communication (6.000 credits) - Not Met</th>
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<tr>
<td>No</td>
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<td></td>
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<td>AND B. Communication Rqmt. 3hrs</td>
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<td>Select from ENGL 210; COMM 205.</td>
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Total Credits and GPA 0.000

unofficial evaluation

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
### Area: Mathematics (8.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
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<th>Low High</th>
<th>Required Term Subject</th>
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<th>Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>A.</td>
<td>MATH 151</td>
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<td>B.</td>
<td>MATH 152</td>
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Total Credits and GPA

unofficial evaluation

### Area: Life and Physical Sciences (12.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
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<tr>
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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute C</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>CHEM 107 and 117</td>
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<tr>
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<td>AND</td>
<td>B.</td>
<td>PHYS 218</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>C.</td>
<td>PHYS 208</td>
<td></td>
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Total Credits and GPA

unofficial evaluation

### Area: Language, Philosophy & Culture (3.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute C</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
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<td>A.</td>
<td>ENGR 482</td>
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Total Credits and GPA

unofficial evaluation

### Area: Creative Arts (3.000 credits) - Not Met

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<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute C</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Creative Arts Requirement</td>
<td></td>
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Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

unofficial evaluation

### Area: Social and Behavioral Sciences (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute C</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Social Science Rqmt 3hrs</td>
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</table>

Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000
unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Citizenship (12.000 credits) - Not Met</th>
<th>Total Credits and GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.</td>
<td></td>
</tr>
<tr>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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</tr>
<tr>
<td>No</td>
<td>A.</td>
</tr>
<tr>
<td>No</td>
<td>AND</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Work Not Applied - Met</th>
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<tr>
<td>Description: See advisor for acceptable substitutions.</td>
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<tr>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A.</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: University Writing Requirement - Not Met</th>
<th>Total Credits and GPA 0.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
</tr>
<tr>
<td></td>
<td>Two courses required.</td>
</tr>
<tr>
<td></td>
<td>Must make grade of 'C' or better.</td>
</tr>
<tr>
<td></td>
<td>Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Int'l &amp; Cult Diversity - Not Met</th>
<th>Total Credits and GPA 0.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Foreign Language - Not Met</th>
<th>Total Credits and GPA</th>
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<tbody>
<tr>
<td>Condition Rule Subject Attribute Low High</td>
<td></td>
</tr>
<tr>
<td>Term Subject Course Title Attribute Credits</td>
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</tr>
</tbody>
</table>

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 9/30/2015
Required Courses

Required Credits

A. Foreign Language Reqmt
Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

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Area: Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

Met | Condition | Rule | Subject | Attribute | Low | High | Required | Required | Term | Subject | Course | Title | Attribute | Credits | Courses
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
No | A. | Residence-Major 12hrs | Select from CVEN 300-499.
No | AND | B. | Residence 300-499 24hrs | Select any courses level 300-499.

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Area: GPR-Major - Not Met
Met | Condition | Rule | Subject | Attribute | Low | High | Required | Required | Term | Subject | Course | Title | Attribute | Credits | Courses
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
No | A. | Major GPR 61+hrs | Select from AGEN 320; BAEN 326; CVEN 100-499; ECEN 215; ENGR 111-112, 482; MEEN 315, 363; PHIL 482.

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Back to Display Options

Print
CHANGE IN CURRICULUM

Dwight Look College of Engineering
Department of Civil Engineering
BS in Civil Engineering - Geotechnical Engineering Track
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   - Undergraduate
   - Graduate
   - First Professional (e.g., DPhM, JD, MD, etc.)

2. Request change for:
   - Degree Program
   - Minor
   - Certificate

3. Request submitted by (Department or Program Name):
   Zachry Department of Civil Engineering

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Civil Engineering - Geotechnical Engineering

5. Brief description of change:
   Addition of 1 required course: CVEN 399.

6. Rationale for change:
   CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.
    b. Current catalog curriculum with handwritten edits attached.
    c. Current Howdy degree evaluation with handwritten edits attached.

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
    b. If yes, degree program hours will change from: _________ to: _________
    c. If yes, is the Texas Higher Education Coordinating Board form attached?
       http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robin Autenrieth
Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Chair, College Review Committee Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
<th>Second Semester</th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
<td>(3-0)</td>
<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>(1-3)</td>
<td>2</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
<td>(0-3)</td>
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<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>(3-2)</td>
<td>4</td>
<td>ENGR 112 Foundations in Engr. II</td>
<td>(1-3)</td>
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<tr>
<td>PHYS 218 Mechanics</td>
<td>(3-3)</td>
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<td>MATH 152 Engineering Mathematics II</td>
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<td>University Core Curriculum Elective</td>
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<td>PHYS 208 Electricity and Optics</td>
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<td>University Core Curriculum Elective</td>
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## SOPHOMORE YEAR

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<th>(Cr)</th>
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<tbody>
<tr>
<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
<td>(1-0)</td>
<td>1</td>
<td>CVEN 250 Graphics &amp; Visualiz. in Civil Eng.</td>
<td>(1-3)</td>
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<tr>
<td>CVEN 221 Engr. Mech.: Statics</td>
<td>(2-2)</td>
<td>3</td>
<td>CVEN 302 Computer Applications</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>MATH 251 Engineering Mathematics III</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 303 Civil Engr. Measurement</td>
<td>(2-3)</td>
<td>3</td>
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<tr>
<td>STAT 211 Principles of Statistics I</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 305 Engr Mech. of Materials</td>
<td>(3-0)</td>
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<tr>
<td>University Core Curriculum Elective</td>
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<td>CVEN 306 Materials for Civil Engineers</td>
<td>(2-2)</td>
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<td>ENGL 210 or COMM 205</td>
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<td>MATH 308 Differential Equations</td>
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## JUNIOR YEAR

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<tbody>
<tr>
<td>CVEN 311 Fluid Dynamics</td>
<td>(3-0)</td>
<td>3</td>
<td>CVEN 399 Mid-Curriculum Prof. Development</td>
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<td>CVEN 322 Civil Engineering Systems II</td>
<td>(3-0)</td>
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<td>MEEN 315, ELEN 215, or BAEN 320</td>
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<td>CVEN 345 Theory of Structures</td>
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<td>Technical Electives³</td>
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<td>CVEN 363 Engr Mech. Dynamics</td>
<td>(2-2)</td>
<td>3</td>
<td>University Core Curriculum Elective</td>
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<td>Technical Elective³</td>
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<td>15</td>
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## SENIOR YEAR

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<th>(Cr)</th>
<th></th>
<th>(Th-Pr)</th>
<th>(Cr)</th>
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<tbody>
<tr>
<td>CVEN 424 Civil Engineering Prof. Practice³</td>
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<td>2</td>
<td>ENGR/PHIL 482 Ethics and Engineering³</td>
<td>(2-2)</td>
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<td>Technical Electives³</td>
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<td>Technical Electives³</td>
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<tr>
<td>University Core Curriculum Elective³</td>
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<td></td>
<td></td>
<td>15</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Geotechnical Engineering Track

The Geotechnical Engineering Track is designed to fulfill the BS in Civil Engineering degree by emphasizing specialized coursework in applied soil mechanics and foundation engineering, as well as civil engineering sub-disciplines with strong geotechnical engineering connections such as structures, water resources, construction, transportation, environmental, coastal and ocean engineering. The track is appropriate for those wishing to pursue careers in engineering design and management of infrastructure in a wide array of sectors that can include energy, transportation, and water resources.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

<table>
<thead>
<tr>
<th>First Year</th>
<th>University Core Curriculum</th>
<th>Term Semester Credit Hours</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
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<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric 1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I 1,2</td>
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<tr>
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<td>Mechanics 1</td>
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<td>4</td>
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<td>University Core Curriculum 3</td>
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</tr>
<tr>
<td></td>
<td>Term Semester Credit Hours</td>
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<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students 1,4</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory 1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundations of Engineering II</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Engineering Mathematics II 1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Second Year | University Core Curriculum 3 | Term Semester Credit Hours | Semester Credit Hours |
|            |                             |                           |                       |
| Fall       | CVEN 207 Introduction to the Civil Engineering Profession | 1 | 1 |
|            | CVEN 221 Engineering Mechanics: Statics | 3 | 3 |
|            | MATH 251 Engineering Mathematics III | 3 | 3 |
|            | STAT 211 Principles of Statistics I | 3 | 3 |
|            | COMM 205 or ENGL 210 Communication for Technical Professions or Technical and Business Writing | 3 | 3 |
|            | Term Semester Credit Hours |                           | 16                    |

| Spring | CVEN 250 Introduction to Graphics and Visualization Applications in Civil Engineering Design | 2 | 2 |
|        | CVEN 302 Computer Applications in Engineering and Construction | 3 | 3 |
|        | CVEN 303 Civil Engineering Measurement | 3 | 3 |
|        | CVEN 305 Mechanics of Materials | 3 | 3 |
|        | CVEN 306 Materials Engineering for Civil Engineers | 3 | 3 |
|        | MATH 308 Differential Equations | 3 | 3 |
|        | Term Semester Credit Hours |                           | 17                    |

| Third Year | CVEN 311 Fluid Dynamics | 3 | 3 |
|           | CVEN 322 Civil Engineering Systems | 3 | 3 |
|           | CVEN 345 Theory of Structures | 3 | 3 |
|           | CVEN 383 Engineering Mechanics: Dynamics | 3 | 3 |

Footnotes:
1. A grade of C or better is required.
2. Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
4. BMEN, CHEN, and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/CHEM 111 or CHEM 107/CHEM 117 and CHEM 102/CHEM 112. Credit by Examination (CBE) for CHEM 101/CHEM 111 or CHEM 107/CHEM 117 plus CHEM 102/CHEM 112; or 8 hours of CBE for CHEM 101/CHEM 111 or CHEM 107/CHEM 117 and CHEM 102/CHEM 112.
Technical elective 5  

**Term Semester Credit Hours**  

**Spring**  
Select one of the following:  
- BAEN 320 Engineering Thermodynamics  
- ECEN 215 Principles of Electrical Engineering  
- MEEN 315 Principles of Thermodynamics  

Technical elective 5  
University Core Curriculum 3  

**Term Semester Credit Hours**  

**Fourth Year**  

Fall  
- CVEN 424 Civil Engineering Professional Practice 6  

Technical elective 5  
University Core Curriculum 3  

**Term Semester Credit Hours**  

**Spring**  
- ENGR 482/PHIL 482 Ethics and Engineering 6  

Technical elective 5  
University Core Curriculum 3  

**Term Semester Credit Hours**  

**Total Semester Credit Hours:**  

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.  

6 All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.  

A grade of C or better is required in all science, mathematics, and engineering courses taken to satisfy degree requirements.  

**Total Program Hours 128**  

**Geotechnical Engineering Track - Technical Electives**  

Technical electives for the BS in Civil Engineering, Geotechnical Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (18 semester credit hours), FOCUS courses (9 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.  

**SCIENCE Course (3 Semester Credit Hours Required)**  
- GEOL 320 Geology for Civil Engineers  

**BREADTH Courses (18 Semester Credit Hours Required; All Courses in this List Should Be Taken)**  
- CVEN 301 Environmental Engineering  
- CVEN 339 Water Resources Engineering  
- CVEN 342 Materials of Construction  
- or CVEN 343 or Portland Cement Concrete Materials for Civil Engineers  
- CVEN 349 Civil Engineering Project Management  
- CVEN 365 Introduction to Geotechnical Engineering  
- CVEN 444 Structural Concrete Design  

**FOCUS Courses (9 Semester Credit Hours Required)**  
- CVEN 435 Geotechnical Engineering Design  
Choose 6 Semester Credit Hours From:  
- CVEN 307 Transportation Engineering  
- CVEN 403 Applied Civil Engineering Surveying 1  
- CVEN 405 Construction Management of Field Operations  
- CVEN 417 Bituminous Materials  
- CVEN 418 Highway Materials and Pavement Design  
- CVEN 436 Case Histories in Geotechnical Engineering  
- CVEN 446 Structural Steel Design  
- CVEN 463 Engineering Hydrology  
- OCEN 400 Basic Coastal Engineering  
- GEOL 410 Hydrogeology  
- GEOL 440 Engineering Geology  

**CAPSTONE DESIGN Course (3 Semester Credit Hours Required)**  
- CVEN 400 Design Problems in Civil Engineering  
- or CVEN 483 or Analysis and Design of Structures  

1 CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.
## Detail Requirements

**Information for Degree Evaluation**

- This is **NOT** an official evaluation.

### Program Evaluation

**Limitation**

- Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
- Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

<table>
<thead>
<tr>
<th>Program</th>
<th>BS CVEN-Geotechnical Engr</th>
<th>Catalog Term</th>
<th>Fall 2115 - College Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus</td>
<td>College Station</td>
<td>Evaluation Term</td>
<td>Fall 2115 - College Station</td>
</tr>
<tr>
<td>College</td>
<td>Dwight Look College of Engr</td>
<td>Expected Graduation Date</td>
<td></td>
</tr>
<tr>
<td>Degree</td>
<td>Bachelor of Science</td>
<td>Request Number</td>
<td>11</td>
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<tr>
<td>Level</td>
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<td>Results as of</td>
<td>Sep 30, 2015</td>
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<td>Majors</td>
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<td>Constructions</td>
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<td>Departments</td>
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<table>
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<tr>
<th>Met</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Required</td>
<td>Used</td>
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<tr>
<td>Program GPA</td>
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<tr>
<td>Overall GPA</td>
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| Other Course Information | Transfer | 0.000 | 0.00 |

This is **NOT** an official evaluation.

### Area: Major Coursework (39.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High Required</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>A.</td>
<td>CVEN 207</td>
<td>1hr</td>
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</tr>
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<td>No</td>
<td>AND</td>
<td>B.</td>
<td>CVEN 221</td>
<td>3hrs</td>
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<td>No</td>
<td>AND</td>
<td>C.</td>
<td>CVEN 302</td>
<td>3hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>D.</td>
<td>CVEN 303</td>
<td>3hrs</td>
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<tr>
<td>No</td>
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<td>E.</td>
<td>CVEN 305</td>
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<td>No</td>
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<td>F.</td>
<td>CVEN 306</td>
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<td>No</td>
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<td>G.</td>
<td>CVEN 311</td>
<td>3hrs</td>
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<td>No</td>
<td>AND</td>
<td>H.</td>
<td>CVEN 322</td>
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<td>No</td>
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<td>I.</td>
<td>CVEN 345</td>
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<td>J.</td>
<td>CVEN 363</td>
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</tr>
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<td>No</td>
<td>AND</td>
<td>K.</td>
<td>CVEN 424</td>
<td>2hrs</td>
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<td>No</td>
<td>AND</td>
<td>L.</td>
<td>ENGR 111</td>
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<td>No</td>
<td>AND</td>
<td>M.</td>
<td>ENGR 112</td>
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<td>No</td>
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<td>N.</td>
<td>CVEN 250</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>O.</td>
<td>Engineering Rqmt 3hrs</td>
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</tbody>
</table>

- Add: Rule P. CVEN 399 0hrs

Select from BAEN 320; ECEN 215; MEEN 315.

Total Credits and GPA

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption  
9/30/2015
### Unofficial Evaluation

#### Supporting Coursework (9,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute Low</th>
<th>High Required Term Subject Course Title Attribute Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
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<td>A.</td>
<td>MATH 308</td>
<td>3hrs</td>
<td></td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. MATH 251</td>
<td>3hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>C. STAT 211</td>
<td>3hrs</td>
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Total Credits and GPA

### Unofficial Evaluation

#### Additional Coursework (33,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute Low</th>
<th>High Required Term Subject Course Title Attribute Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>CVEN 301</td>
<td>3hrs</td>
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<td></td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. CVEN 339</td>
<td>3hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>C. CVEN 349</td>
<td>3hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>D. CVEN 365</td>
<td>3hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>E. CVEN 425</td>
<td>3hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>F. CVEN 444</td>
<td>3hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>G. GEOL 320</td>
<td>3hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>H. Breadth Elect.</td>
<td>3hrs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select from CVEN 342-343.

| No  | AND       | I. Focus Elect. | 6hrs          |                                 |         |

Select from CVEN 307, 403, 405, 417-418, 421, 436, 446, 463; GEOL 410, 440; OCCN 400.

| No  | AND       | J. Capstone Design | 3hrs          |                                 |         |

Select from CVEN 400, 483.

### Unofficial Evaluation

#### Communication (6,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute Low</th>
<th>High Required Term Subject Course Title Attribute Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>ENGL 104</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Must have a grade of 'C' or better.

| No  | AND       | B. Communication Rqmt | 3hrs          |                                 |         |

Select from ENGL 210; COMM 205.

Total Credits and GPA 0.000

### Unofficial Evaluation

#### Mathematics (8,000 credits) - Not Met

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 9/30/2015
### Detail Requirements

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. MATH 151</td>
</tr>
<tr>
<td>No</td>
<td>AND B. MATH 152</td>
</tr>
</tbody>
</table>

**Area:** Life and Physical Sciences (12.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. CHEM 107 and 117</td>
</tr>
<tr>
<td>No</td>
<td>AND B. PHYS 218</td>
</tr>
<tr>
<td>No</td>
<td>AND C. PHYS 208</td>
</tr>
</tbody>
</table>

### Unofficial Evaluation

**Area:** Language, Philosophy & Culture (3.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. FNCR 482</td>
</tr>
</tbody>
</table>

### Unofficial Evaluation

**Area:** Creative Arts (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Creative Arts Requirement&lt;br&gt;Select three hours from any course with the Creative Arts attribute [KCRP].</td>
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</table>

### Unofficial Evaluation

**Area:** Social and Behavioral Sciences (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Social Science Reqmt 3hrs&lt;br&gt;Select from courses with the Social and Behavioral Science attribute [KSOC].</td>
</tr>
</tbody>
</table>

### Unofficial Evaluation

---

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

9/30/2015
### Citizenship (12.000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>A.</th>
<th>B.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>American History Rqmt 6hrs</td>
<td>Political Science Rqmt 6hrs</td>
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<tr>
<td></td>
<td></td>
<td>Select from any course with the [RHIS] attribute.</td>
<td>Take POLS 206 and POLS 207.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**

unofficial evaluation

### Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

| No | A. | Courses not applied |

**Total Credits and GPA**

unofficial evaluation

### University Writing Requirement - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Writing Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two courses required. Must make grade of 'C' or better. Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

### Int'l & Cult Diversity - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Int'l &amp; Cultural Diversity 6hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

### Foreign Language - Not Met

| No | A. | Foreign Language Rqmt |

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption 9/30/2015
Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence-Major 12hrs</td>
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<tr>
<td></td>
<td>Select from CVEN 300-499.</td>
</tr>
<tr>
<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
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<tr>
<td></td>
<td>Select any courses level 300-499.</td>
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</table>

unofficial evaluation

Area : GPR-Major - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Major GPR 61+hrs</td>
</tr>
<tr>
<td></td>
<td>Includes: AGEN 320; BAEN 320; CVEN 100-499; ECEN 215; ENGR 111-112, 462; MEEN 315, 363; PHIL 482.</td>
</tr>
</tbody>
</table>

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - STRUCTURAL ENGINEERING TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: 
✓ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: 
✓ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name): 
Zachry Department of Civil Engineering

4. Program Designation and Name 
(e.g., B.A. in History, Minor in History, Certificate in European Union): 
B.S. in Civil Engineering - Structural Engineering

5. Brief description of change:
Addition of 1 required course: CVEN 399.

6. Rationale for change:
CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ✓ Yes □ No
    b. Current catalog curriculum with handwritten edits attached. ✓ Yes □ No
    c. Current Howdy degree evaluation with handwritten edits attached. ✓ Yes □ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes ✓ No
    b. If yes, degree program hours will change from: ________ to: ________
    c. If yes, is the Texas Higher Education Coordinating Board form attached? □ Yes □ No

http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3B8FF01D60

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Robin Autenrieth  10-2-15
Department Head or Program Chair (Type Name & Sign)  Date

Dean of College  Date

Chair, College Review Committee  Date
Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>(Cr)</th>
<th>Second Semester</th>
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<th>(Cr)</th>
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<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
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<td>CHEM 107 Gen. Chem. for Engineers</td>
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<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
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<td>MATH 151 Engineering Mathematics I</td>
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<td>PHYS 208 Electricity and Optics</td>
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## SOPHOMORE YEAR

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<th>(Cr)</th>
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<tr>
<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
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<td>1</td>
<td>CVEN 250 Graphics &amp; Visualiz in Civil Eng.</td>
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<tr>
<td>CVEN 221 Engr. Mech.: Statics</td>
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<td>CVEN 302 Computer Applications</td>
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<td>STAT 211 Principles of Statistics I</td>
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<td>CVEN 305 Engr Mech. of Materials</td>
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<td>CVEN 306 Materials for Civil Engineers</td>
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<td>MATH 308 Differential Equations</td>
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<td>CVEN 311 Fluid Dynamics</td>
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<td>MEEN 315, ELEN 215, or BAEN 320</td>
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<td>CVEN 345 Theory of Structures</td>
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## SENIOR YEAR

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<tr>
<td>CVEN 424 Civil Engineering Prof. Practice(^4)</td>
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<td>ENGR/PHIL 482 Ethics and Engineering(^4)</td>
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</table>

## NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the speciality area chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
# Civil Engineering - BS, Structural Engineering Track

The Structural Engineering track to fulfill the BS in Civil Engineering degree provides coursework in the areas of structural mechanics and structural analysis that equip the student to analyze and design the frameworks that support buildings, bridges, offshore installations and civil infrastructure projects. This track is appropriate for those with strong analytical and computing skills wishing to apply them in the design of engineered facilities. Structural engineers create simulation models of structural systems and use them to properly proportion the beams, columns and floor systems found in buildings and other civil projects to safely resist the forces found in their environment.

## Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

<table>
<thead>
<tr>
<th>First Year Fall</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric 1</td>
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<td>ENGR 111</td>
<td>Foundations of Engineering I 1</td>
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<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I 1,2</td>
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<tr>
<td>PHYS 218</td>
<td>Mechanics I 1</td>
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<tr>
<td>University Core Curriculum 3</td>
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<td><strong>Term Semester Credit Hours</strong></td>
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<th>Spring</th>
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<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering Students 1,4</td>
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<tr>
<td>CHEM 117</td>
<td>General Chemistry for Engineering Students Laboratory 1</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundations of Engineering II I</td>
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<td>MATH 152</td>
<td>Engineering Mathematics II 1</td>
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<tr>
<td>PHYS 208</td>
<td>Electricity and Optics 1</td>
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<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
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<tr>
<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
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<td>MATH 251</td>
<td>Engineering Mathematics III</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
</tr>
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<td>COMM 205 or ENGL 210</td>
<td>Communication for Technical Professions or Technical and Business Writing</td>
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<tr>
<td>University Core Curriculum 3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Semester Credit Hours</strong></td>
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<tr>
<th>Spring</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
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<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
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<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
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<tr>
<td>CVEN 306</td>
<td>Materials Engineering for Civil Engineers</td>
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<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
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<td><strong>Term Semester Credit Hours</strong></td>
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<table>
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<th>Third Year Fall</th>
<th>Semester Credit Hours</th>
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<tr>
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<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
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<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
</tr>
<tr>
<td>CVEN 363</td>
<td>Engineering Mechanics: Dynamics</td>
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Technical elective 5

Term Semester Credit Hours 15

Spring
Select one of the following:
BAEN 320 Engineering Thermodynamics
ECEN 215 Principles of Electrical Engineering
MEEN 315 Principles of Thermodynamics
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 15

Fourth Year
Fall
CVEN 424 Civil Engineering Professional Practice 6
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 17

Spring
ENGR 482/PHIL 482 Ethics and Engineering 6
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 15

Total Semester Credit Hours 85

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics and engineering courses taken to satisfy degree requirements.

Total Program Hours 128

Structural Engineering Track - Technical Electives

Technical electives for the BS in Civil Engineering, Structural Engineering Track are composed of a SCIENCE course (3 semester credit hours), a MATH course (3 semester credit hours), BREADTH courses (15 semester credit hours), FOCUS courses (9 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation
 Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation
 Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program:
 BS CVEN-Structural Engr

Catalog Term:
 Fall 2015 - College Station

Evaluation Term:
 Fall 2015 - College Station

Expected Graduation Date:

Request Number:
 12

Results as of:
 Sep 30, 2015

Minors:

Concentrations:

Met Credits Courses

<table>
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<th>Met</th>
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Program GPA:
Yes .00 .00

Overall GPA:
No 2.00 2.00

Other Course Information:
Transfer:

0.000 0.000

This is NOT an official evaluation.

Area:
Major Coursework (39.000 credits) - Not Met

Description:
Must have a grade of 'C' or better in all area coursework.

Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute C
Credits Courses

No
No
No
No
No
No
No
No
No
No
No
No
No
No
No
No
No
No
No

AND
B.
C.
D.
E.
F.
G.
H.
I.
J.
K.
L.
M.
N.
O.

CVEN 207 1hr
CVEN 345 3hrs
CVEN 345 3hrs
CVEN 345 3hrs
CVEN 424 2hrs
ENGR 111 2hrs
ENGR 112 2hrs
Engineering Rqmt 3hrs

Select from BAEN 320; ECEN 215; MEEN 315.

Add: Rule P. CVEN 399 0hrs

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/30/2015
### Supporting Coursework (9.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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**Total Credits and GPA**

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### Additional Coursework (33.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<td>Select from CVEN 342-343.</td>
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<td>Breadth Elect.</td>
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<td>6hrs</td>
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<td>I.</td>
<td>Science Elect.</td>
<td>3</td>
<td>3hrs</td>
<td>Select from ATMO 201, 363; BESC 201; BIOL 113; GEOG 203; GEOL 320, 410; GEOS 105; OCNG 410; RENR 205, 205, 375, 444; SCSC 445.</td>
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<td>Math Elect.</td>
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**Total Credits and GPA**

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### Communication (6.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better.

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<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
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<th>Course</th>
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<th>Courses</th>
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**Total Credits and GPA**

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**unofficial evaluation**
### Mathematics (8.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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Total Credits and GPA

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### Life and Physical Sciences (12.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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Total Credits and GPA

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### Language, Philosophy & Culture (3.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<tr>
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Total Credits and GPA

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### Creative Arts (3.000 credits) - Not Met

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<td>No</td>
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<td>Creative Arts Requirement</td>
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<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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Total Credits and GPA 0.000

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### Social and Behavioral Sciences (3.000 credits) - Not Met

**Met**

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<th>Courses</th>
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<tbody>
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<td>No</td>
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<td>Social Science Rqmt 3hrs</td>
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<td>Select from courses with the Social and Behavioral Science attribute [KSOC].</td>
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Total Credits and GPA 0.000

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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

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<th>Area: Citizenship (12,000 credits) - Not Met</th>
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<tr>
<td>Description:</td>
<td>Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.</td>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
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<td>No</td>
<td>A. American History Rqmt 6hrs Select from any course with the [KHS] attribute.</td>
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<tr>
<td>No AND B. Political Science Rqmt 6hrs Take POLS 206 and POLS 207.</td>
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unofficial evaluation

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<th>Area: Work Not Applied - Met</th>
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<tbody>
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<td>Description:</td>
<td>See advisor for acceptable substitutions.</td>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<td>A. Courses not applied</td>
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unofficial evaluation

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<tr>
<th>Area: University Writing Requirement - Not Met</th>
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</table>
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute
Credits Courses |
| No | A. Writing Requirement Two courses required. Must make grade of 'C' or better. Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement. |

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Int'l &amp; Cult Diversity - Not Met</th>
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</table>
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute
Credits Courses |
| No | A. Int'l & Cultural Diversity 6hr Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute). |

unofficial evaluation

<table>
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<th>Area: Foreign Language - Not Met</th>
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</table>
| Met | Condition Rule Subject Attribute Low High Term Subject Course Title Attribute
Credits |
unofficial evaluation

Area: Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

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<th>Courses</th>
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<tbody>
<tr>
<td></td>
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<td>Residence-Major 12hrs</td>
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<td>Select from CVEN 300-499.</td>
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<td>AND</td>
<td>Residence 300-499 24hrs</td>
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<td>Select any courses level 300-499.</td>
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unofficial evaluation

Area: GPR-Major - Not Met

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<th>Courses</th>
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<tbody>
<tr>
<td></td>
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<td>Major GPR 58+hrs</td>
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<td>Select fro AGEN 320; BAEN 320; CVEN 100-499; ECEN 215; ENGR 111-112, 482; MEEN 315, 363; PHIL 482.</td>
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Total Credits and GPA: 0.000

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
BS IN CIVIL ENGINEERING - TRANSPORTATION ENGINEERING TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program ☐ Minor ☐ Certificate

3. Request submitted by (Department or Program Name):
   Zachary Department of Civil Engineering

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Civil Engineering - Transportation Engineering

5. Brief description of change:
   Addition of 1 required course: CVEN 399.

6. Rationale for change:
   CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes ☐ No
    b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
    c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
    b. If yes, degree program hours will change from: _________ to: _________
    c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐ Yes ☐ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Robin Autenrieth
Department Head or Program Chair (Type Name & Sign) Date

[Signatures and dates]
Chair, College Review Committee Date
Dean of College Date
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14
# CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>(Cr)</th>
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<th>(Cr)</th>
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<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
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<td>3</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
<td>(3-0)</td>
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<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>(1-3)</td>
<td>2</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
<td>(0-3)</td>
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<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>(3-2)</td>
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<td>ENGR 112 Foundations in Engr. II</td>
<td>(1-3)</td>
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<td>PHYS 218 Mechanics</td>
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<td>MATH 152 Engineering Mathematics II</td>
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<td>PHYS 208 Electricity and Optics</td>
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## SOPHOMORE YEAR

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<td>CVEN 207 Intro to the Civil Engrg Prof.</td>
<td>(1-0)</td>
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<td>CVEN 250 Graphics &amp; Visualiz. in Civil Eng.</td>
<td>(1-3)</td>
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<tr>
<td>CVEN 221 Engr. Mech.: Statics</td>
<td>(2-2)</td>
<td>3</td>
<td>CVEN 302 Computer Applications</td>
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<td>MATH 251 Engineering Mathematics III</td>
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<td>CVEN 303 Civil Engr. Measurement</td>
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<td>STAT 211 Principles of Statistics I</td>
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<td>CVEN 305 Engr Mech. of Materials</td>
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<td>CVEN 306 Materials for Civil Engineers</td>
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<td>ENGL 210 or COMM 205</td>
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<td>MATH 308 Differential Equations</td>
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## JUNIOR YEAR

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<td>CVEN 311 Fluid Dynamics</td>
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<td>CVEN 399 Mid-Curriculum Prof. Development</td>
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<td>CVEN 322 Civil Engineering Systems II</td>
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<td>MEEN 315, ELEN 215, or BAEN 320</td>
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<td>CVEN 345 Theory of Structures</td>
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<td>CVEN 363 Engr Mech: Dynamics</td>
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<td>Technical Elective</td>
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## SENIOR YEAR

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<td>CVEN 424 Civil Engineering Prof. Practice</td>
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<td>ENGR/PHEL 482 Ethics and Engineering</td>
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</table>

### NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHEL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Transportation Engineering Track

The Transportation Engineering Track is designed to fulfill the BS in Civil Engineering degree requirements with a focus on transportation engineering areas of planning, design, and operations, as well as civil engineering sub-disciplines with strong transportation connections such as water resources, construction, and geotechnical. This track is appropriate for those wishing to pursue careers in engineering related to the planning, design, construction, operation, and maintenance of various elements of the transportation system, including roads, rail, transit, and aviation.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

First Year

<table>
<thead>
<tr>
<th>Semester Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
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</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics</td>
<td>4</td>
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<td>Term Semester Credit Hours</td>
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Second Year

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
<td>1</td>
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<tr>
<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
<td>3</td>
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<tr>
<td>MATH 251</td>
<td>Engineering Mathematics III</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>COMM 205 or ENGL 210</td>
<td>Communication for Technical Professions or Technical and Business Writing</td>
<td>3</td>
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<tr>
<td>University Core Curriculum</td>
<td>3</td>
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<tr>
<td>Term Semester Credit Hours</td>
<td>16</td>
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Spring

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<thead>
<tr>
<th>Semester Credits</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
<td>2</td>
</tr>
<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
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<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
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<td>CVEN 306</td>
<td>Materials Engineering for Civil Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
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<td>Term Semester Credit Hours</td>
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Third Year

Fall

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<tr>
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<tbody>
<tr>
<td>CVEN 311</td>
<td>Fluid Dynamics</td>
<td>3</td>
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<tr>
<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
<td>3</td>
</tr>
<tr>
<td>CVEN 383</td>
<td>Engineering Mechanics: Dynamics</td>
<td>3</td>
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</tbody>
</table>

Notes:
1. A grade of C or better is required.
2. Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
4. BMEN, CHEN, and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/101 or CHEM 107/117 and CHEM 102/112; Credit by Examination (CBE) for CHEM 101/101 or CHEM 107/117 or CHEM 107/117 plus CHEM 102/112; or 8 hours of CBE for CHEM 101/101 or CHEM 107/117 and CHEM 102/112.
Spring
Technical elective 5
Select one of the following:
BAEN 320 Engineering Thermodynamics
ECEN 215 Principles of Electrical Engineering
MEEN 315 Principles of Thermodynamics
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 15

Fourth Year
Fall
CVEN 424 Civil Engineering Professional Practice 6
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 17

Spring
ENGR 482/PHIL 482 Ethics and Engineering 6
Technical elective 5
University Core Curriculum 3

Term Semester Credit Hours 9

Total Semester Credit Hours: 95

5 A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the track chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering context.

6 All students must take at least two courses in their major that are designated as writing-intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics and engineering courses taken to satisfy degree requirements.

Total Program Hours 128

Transportation Engineering Track - Technical Electives

Technical electives for the BS in Civil Engineering, Transportation Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (12-18 semester credit hours), FOCUS courses (9-15 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

SCIENCE Course (3 Semester Credit Hours Required)
Choose 3 Semester Credit Hours From:
ATMO 201 Weather and Climate
BESC 201 Introduction to Bioenvironmental Sciences
GEOG 203 Planet Earth
GEOL 320 Geology for Civil Engineers
GEOS 105 Introduction to Environmental Geoscience

BREADTH Courses (12-18 Semester Credit Hours Required) 1
CVEN 307 Transportation Engineering
CVEN 342 Materials of Construction
CVEN 343 or Portland Cement Concrete Materials for Civil Engineers
CVEN 444 Structural Concrete Design
CVEN 445 301 Environmental Engineering
CVEN 339 Water Resources Engineering
CVEN 349 Civil Engineering Project Management
CVEN 365 Introduction to Geotechnical Engineering
CVEN 446 Structural Steel Design

FOCUS Courses (9-15 Semester Credit Hours Required) 1
CVEN 454 Urban Planning for Engineers
CVEN 457 Urban Traffic Facilities
CVEN 458 403 Applied Civil Engineering Surveying 2
CVEN 417 Bituminous Materials
CVEN 418 Highway Materials and Pavement Design
CVEN 423 Geomatics for Civil Engineering
CVEN 451 Public Works Engineering
CVEN 455 Urban Stormwater Management
ISEN 430 Human Factors and Ergonomics

CAPSTONE DESIGN Course (3 Semester Credit Hours Required)
CVEN 456 Highway Design

1 The sum of semester credit hours of Breadth and Focus courses must be at least 27.

2 CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisors for guidance on appropriate courses with which to earn this credit.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: BS CVEN-Transportation Engr
Campus: College Station
College: Dwight Look College of Engr
Degree: Bachelor of Science
Level: Undergraduate
Majors: Civil Engineering
Departments: Civil Engineering

Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: Request Number: 13
Results as of: Sep 30, 2015
Concentrations:

<table>
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<tr>
<th>Met</th>
<th>Credits</th>
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Other Course Information
Transfer: 0.000 0

This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met
Description: Must have a grade of 'C' or better in all area coursework.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C
Credits Courses
No A. CVEN 207 1hr
No AND B. CVEN 221 3hrs
No AND C. CVEN 302 3hrs
No AND D. CVEN 303 3hrs
No AND E. CVEN 305 3hrs
No AND F. CVEN 306 3hrs
No AND G. CVEN 311 3hrs
No AND H. CVEN 322 3hrs
No AND I. CVEN 345 3hrs
No AND J. CVEN 363 3hrs
No AND K. CVEN 424 2hrs
No AND L. ENGR 111 2hrs
No AND M. ENGR 112 2hrs
No AND N. CVEN 250 2hrs
No AND O. Engineering Rqmt 3hrs

Select from BAEN 320; ECEN 215; MEEN 315.

Add: Rule P. CVEN 399 0hrs

Total Credits and GPA

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

### Supporting Coursework (9,000 credits) - Not Met

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<td>C.</td>
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<td>STAT 211</td>
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Total Credits and GPA

unofficial evaluation

### Additional Coursework (33,000 credits) - Not Met

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<td>AND</td>
<td>H.</td>
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<td>AND</td>
<td>I.</td>
<td>Breadth/Focus Elect.</td>
<td>- 6hrs</td>
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<td>No</td>
<td>AND</td>
<td>J.</td>
<td>Science Elect.</td>
<td>- 3hrs</td>
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</table>

Select from CVEN 342-343.
Select from CVEN 301, 339, 349, 365, 421, 446.
Select from CVEN 403, 417-418, 423, 451, 455; ISEN 430.
Select from CVEN 301, 339, 349, 365, 403, 417-418, 421, 423, 446, 451, 455; ISEN 430.
Select from ATMO 201; BESC 201; GEOG 203; GEOL 320; GEOS 105.

Total Credits and GPA

unofficial evaluation

### Communication (6,000 credits) - Not Met

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<td>Must have a grade of 'C' or better.</td>
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Total Credits and GPA

unofficial evaluation
### Mathematics (8.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<td>MATH 152</td>
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</table>

Total Credits and GPA

unofficial evaluation

### Life and Physical Sciences (12.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

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<td>C.</td>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

### Language, Philosophy & Culture (3.000 credits) - Not Met

**Description:** Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Term</th>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

### Creative Arts (3.000 credits) - Not Met

**Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses**

| Met | A. | Creative Arts Requirement | Select three hours from any course with the Creative Arts attribute [KCRA]. |

Total Credits and GPA 0.000

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### Social and Behavioral Sciences (3.000 credits) - Not Met

**Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses**

| Met | A. | Social Science Rqmt 3hrs | Select from courses with the Social and Behavioral Science attribute [KSOC]. |

Total Credits and GPA 0.000

unofficial evaluation
**unofficial evaluation**

**Area:** Citizenship (12,000 credits) - Not Met  
**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

**Met**  
Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses  

| No | A. American History Reqmt 6hrs  
Select from any course with the [KHS] attribute.  
| No | AND B. Political Science Reqmt 6hrs  
Take POLS 206 and POLS 207. |

Total Credits and GPA  

**unofficial evaluation**

**Area:** Work Not Applied - Met  
**Description:** See advisor for acceptable substitutions.

**Met**  
Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses  

| No | A. Courses not applied |

Total Credits and GPA  

**unofficial evaluation**

**Area:** University Writing Requirement - Not Met  
**Met**  
Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses  

| No | A. Writing Requirement  
Two courses required.  
Must make grade of 'C' or better.  
Only sections of CVEN 424; ENGR 482; PHIL 482 with the  
Writing attribute [UWRT] may be used to satisfy this  
requirement.  

Total Credits and GPA 0.000  

**unofficial evaluation**

**Area:** Int'l & Cult Diversity - Not Met  
**Met**  
Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses  

| No | A. Int'l & Cultural Diversity 6hr  
Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute). |

Total Credits and GPA 0.000  

**unofficial evaluation**

**Area:** Foreign Language - Not Met  
**Met**  
Condition Rule Subject Attribute Low High Term Subject Course Title Attribute Credits  

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption  

9/30/2015
### Required Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A. Foreign Language Rqmt</th>
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<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

### Residence Requirement - Not Met

<table>
<thead>
<tr>
<th>Area: Residence Requirement - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong> A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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</table>

<table>
<thead>
<tr>
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<th>Condition</th>
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<th>Attribute</th>
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<th>High</th>
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<td>Select from CVEN 300-499.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. Residence</td>
<td>300-499 24hrs</td>
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<td>Select any courses level 300-499.</td>
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**Total Credits and GPA** 0.000

unofficial evaluation

### GPR-Major - Not Met

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<tr>
<td>-----------------</td>
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<tr>
<td>No A. Major GPR 55 hrs</td>
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<tr>
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</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

**Back to Display Options**

1

[Print]
CHANGE IN CURRICULUM

Dwight Look College of Engineering
Department of Civil Engineering
BS in Civil Engineering - Water Resources Engineering Track
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ✓Undergraduate □Graduate □First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: ✓Degree Program □Minor □Certificate

3. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering

4. Program Designation and Name (e.g., B.A. in History, Minor in History; Certificate in European Union): B.S. in Civil Engineering - Water Resources Engineering

5. Brief description of change:
   (1) Addition of 1 required course: CVEN 399.
   (2) Addition of 1 elective option: CVEN 462.

6. Rationale for change:
   (1) CVEN 399 is a 0 credit course to implement a high-impact learning practice requirement in the curriculum.
   (2) CVEN 462 is a newly approved course.

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Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ✓Yes □No
   b. Current catalog curriculum with handwritten edits attached. ✓Yes □No
   c. Current Howdy degree evaluation with handwritten edits attached. ✓Yes □No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □Yes ✓No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60 □Yes □No

9. If proposed changes affect other unit(s), are letters of support attached? □Yes □No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robin Autenrieth
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14
## CATALOG 139 CURRICULUM FOR BS, CIVIL ENGINEERING

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104 Composition &amp; Rhetoric</td>
<td>CHEM 107 Gen. Chem. for Engineers</td>
</tr>
<tr>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 111 Foundations in Engr. I</td>
<td>CHEM 117 Gen. Chem. for Engineers Lab</td>
</tr>
<tr>
<td>MATH 151 Engineering Mathematics I</td>
<td>ENGR 112 Foundations in Engr. II</td>
</tr>
<tr>
<td>PHYS 218 Mechanics</td>
<td>MATH 152 Engineering Mathematics II</td>
</tr>
<tr>
<td>University Core Curriculum Elective(^1)</td>
<td>PHYS 208 Electricity and Optics</td>
</tr>
<tr>
<td>ENGL 210 or COMM 205</td>
<td>University Core Curriculum Elective(^1)</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CVEN 207 Intro to the Civil Engr Prof.</td>
<td>CVEN 250 Graphics &amp; Visualiz. in Civil Eng.</td>
</tr>
<tr>
<td>CVEN 221 Engr. Mech.: Statics</td>
<td>CVEN 302 Computer Applications</td>
</tr>
<tr>
<td>MATH 251 Engineering Mathematics III</td>
<td>CVEN 303 Civil Engr. Measurement</td>
</tr>
<tr>
<td>STAT 211 Principles of Statistics I</td>
<td>CVEN 305 Engr Mech. of Materials</td>
</tr>
<tr>
<td>University Core Curriculum Elective(^1)</td>
<td>CVEN 306 Materials for Civil Engineers</td>
</tr>
<tr>
<td>ENGL 210 or COMM 205</td>
<td>MATH 308 Differential Equations</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>CVEN 311 Fluid Dynamics</td>
<td>CVEN 399 Mid-Curriculum Prof. Development</td>
</tr>
<tr>
<td>CVEN 322 Civil Engineering Systems II</td>
<td>MEEN 315, ELEN 215, or BAEN 320</td>
</tr>
<tr>
<td>CVEN 345 Theory of Structures</td>
<td>Technical Electives(^3)</td>
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<tr>
<td>CVEN 363 Engr Mech: Dynamics</td>
<td>University Core Curriculum Elective(^1)</td>
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<tr>
<td>Technical Elective(^3)</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CVEN 424 Civil Engineering Prof. Practices(^4)</td>
<td>ENGR/PHIL 482 Ethics and Engineering(^4)</td>
</tr>
<tr>
<td>Technical Electives(^3)</td>
<td>Technical Electives(^3)</td>
</tr>
<tr>
<td>University Core Curriculum Elective(^1)</td>
<td>3</td>
</tr>
</tbody>
</table>

### NOTES:

1. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government and political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, American history, and government and political science requirements if they are also on the approved list of international and cultural diversity courses.

2. Civil engineering students are required to earn a grade of C or better in all basic science, mathematics and engineering courses taken to satisfy degree requirements.

3. A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the four categories depends on the specialty area chosen and must be made in consultation with the student’s advisor and/or the Civil Engineering Student Services Office. Capstone design courses must include more than one civil engineering context.

4. All students must take at least two courses in their major that are designated as writing intensive (W). ENGR/PHIL 482 and CVEN 424 taken at A&M satisfy this requirement. Other CVEN courses may be approved as W-courses at a later date. A grade of C or better is required in these courses.
Civil Engineering - BS, Water Resources Engineering Track

The Water Resources Engineering Track is designed to fulfill the BS in Civil Engineering degree, with a focus on specialized coursework in applied hydraulics, hydrology, and environmental engineering. This track is suitable for those interested in pursuing careers in engineering design and management for water quantity and quality issues.

Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering, thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for those majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundations of Engineering</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics</td>
</tr>
<tr>
<td>University Core Curriculum</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 207</td>
<td>Introduction to the Civil Engineering Profession</td>
</tr>
<tr>
<td>CVEN 221</td>
<td>Engineering Mechanics: Statics</td>
</tr>
<tr>
<td>MATH 251</td>
<td>Engineering Mathematics II</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics</td>
</tr>
<tr>
<td>COMM 205</td>
<td>Communication for Technical Professions</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>or Technical and Business Writing</td>
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<thead>
<tr>
<th>Spring</th>
<th>Term Semester Credit Hours</th>
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<tbody>
<tr>
<td>CVEN 250</td>
<td>Introduction to Graphics and Visualization Applications in Civil Engineering Design</td>
</tr>
<tr>
<td>CVEN 302</td>
<td>Computer Applications in Engineering and Construction</td>
</tr>
<tr>
<td>CVEN 303</td>
<td>Civil Engineering Measurement</td>
</tr>
<tr>
<td>CVEN 305</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>CVEN 306</td>
<td>Materials Engineering for Civil Engineers</td>
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<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
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<table>
<thead>
<tr>
<th>Third Year</th>
<th>Term Semester Credit Hours</th>
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</thead>
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<tr>
<td>Fall</td>
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<tr>
<td>CVEN 311</td>
<td>Fluid Dynamics</td>
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<td>CVEN 322</td>
<td>Civil Engineering Systems</td>
</tr>
<tr>
<td>CVEN 345</td>
<td>Theory of Structures</td>
</tr>
<tr>
<td>CVEN 363</td>
<td>Engineering Mechanics: Dynamics</td>
</tr>
<tr>
<td>Technical elective</td>
<td></td>
</tr>
</tbody>
</table>

| Spring | |

1 A grade of C or better is required.
2 Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3 Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
4 BMEN, CHEN and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/111 or CHEM 107/117 and CHEM 102/112; Credit by Examination (CBE) for CHEM 101/111 or CHEM 107/117 plus CHEM 102/112; or 8 hours of CBE for CHEM 101/111 or CHEM 107/117 and CHEM 102/112.
Select one of the following:

- BAEN 320 Engineering Thermodynamics
- ECEN 215 Principles of Electrical Engineering
- MEEN 315 Principles of Thermodynamics
- Technical elective 5
- University Core Curriculum 3

**Term Semester Credit Hours**

<table>
<thead>
<tr>
<th>Fall</th>
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<th></th>
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<tbody>
<tr>
<td>CVEN 424</td>
<td>Civil Engineering Professional Practice 6</td>
<td>2</td>
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<tr>
<td>Technical elective 5</td>
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<tr>
<td>University Core Curriculum 3</td>
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**Term Semester Credit Hours**

<table>
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<tr>
<th>Spring</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ENGR 482/PHIL 482</td>
<td>Ethics and Engineering 6</td>
<td>3</td>
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<tr>
<td>Technical elective 5</td>
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<tr>
<td>University Core Curriculum 3</td>
<td></td>
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</tbody>
</table>

**Total Semester Credit Hours:** 95

A total of 33 hours of technical electives is required. Technical electives are divided into four categories: science courses, breadth courses, focus courses, and capstone design courses. The choice of courses to be taken in each of the categories depends on the track chosen and must be made in consultation with the student's advisor and/or the Civil Engineering Undergraduate Student Services Office. Capstone design courses must include more than one civil engineering discipline.

All students must take at least two courses in their major that are designated as writing intensive (W). ENGR 482/PHIL 482 and CVEN 424 taken at Texas A&M satisfy this requirement. Other CVEN courses may be approved as W courses at a later date. A grade of C or better is required in these courses.

A grade of C or better is required in all science, mathematics, and engineering courses taken to satisfy degree requirements.

**Total Program Hours 128**

**Water Resources Engineering Track - Technical Electives**

Technical electives for the BS in Civil Engineering, Water Resources Engineering Track are composed of a SCIENCE course (3 semester credit hours), BREADTH courses (15 semester credit hours), FOCUS courses (12 semester credit hours), and a CAPSTONE DESIGN course (3 semester credit hours), as delineated below, for a total of 33 semester credit hours. A substitution for any course in the track must be approved in writing by the Civil Engineering Undergraduate Student Services Office, CE Building, Room 140.

**SCIENCE Course (3 Semester Credit Hours Required)**

Choose 3 Semester Credit Hours From:
- ATMO 201 Weather and Climate

**BREADTH Courses (15 Semester Credit Hours Required)**

- CVEN 301 Environmental Engineering
- CVEN 307 Transportation Engineering
- CVEN 339 Water Resources Engineering
- CVEN 342 Materials of Construction
- CVEN 343 or Portland Cement Concrete Materials for Civil Engineers
- CVEN 365 Introduction to Geotechnical Engineering
- CVEN 463 Engineering Hydrology
- CVEN 464 Urban Stormwater Management
- CVEN 458 Hydraulic Engineering of Water Distribution Systems
- CVEN 463 Engineering Hydrology
- CVEN 402 Engineered Environmental Systems
- CVEN 403 Applied Civil Engineering Surveying 1
- CVEN 404 Environmental Protection and Public Health
- CVEN 413 Natural Environmental Systems
- CVEN 423 Geomatics for Civil Engineering
- CVEN 430 Urban Planning for Engineers
- OCEN 338 Fluid Dynamics Laboratory
- OCEN 400 Basic Coastal Engineering

**FOCUS Courses (12 Semester Credit Hours Required)**

Choose 6 Semester Credit Hours From:
- CVEN 455 Urban Stormwater Management
- CVEN 458 Hydraulic Engineering of Water Distribution Systems
- CVEN 463 Engineering Hydrology
- CVEN 464 Urban Stormwater Management
- CVEN 458 Hydraulic Engineering of Water Distribution Systems
- CVEN 463 Engineering Hydrology
- CVEN 455 Urban Stormwater Management
- CVEN 458 Hydraulic Engineering of Water Distribution Systems
- CVEN 463 Engineering Hydrology
- CVEN 455 Urban Stormwater Management
- CVEN 458 Hydraulic Engineering of Water Distribution Systems
- CVEN 463 Engineering Hydrology

**CAPSTONE DESIGN Course (3 Semester Credit Hours Required)**

CVEN 400 Design Problems in Civil Engineering

1. CVEN 403 is a 2 semester credit hour course. Students must typically earn an additional 1 semester credit hour of Focus course credit and should consult with their advisor's guidance on appropriate courses with which to earn this credit.
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

**Limitation** Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

**Limitation** Combination: Maximum combination of 18 hours of 481, 492, 485 and/or 491 courses may be used for an undergraduate degree.

<table>
<thead>
<tr>
<th>Program :</th>
<th>BS CVEN-Water Res &amp; Hyd Engr</th>
<th>Catalog Term :</th>
<th>Fall 2015 - College Station</th>
</tr>
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<tbody>
<tr>
<td>Campus :</td>
<td>College Station</td>
<td>Evaluation Term :</td>
<td>Fall 2015 - College Station</td>
</tr>
<tr>
<td>College :</td>
<td>Dwight Look College of Engr</td>
<td>Expected Graduation Date :</td>
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<tr>
<td>Degree :</td>
<td>Bachelor of Science</td>
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<td>6</td>
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<td>Level :</td>
<td>Undergraduate</td>
<td>Results as of :</td>
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<td>Civil Engineering</td>
<td>Minors :</td>
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<tr>
<td>Departments :</td>
<td>Civil Engineering</td>
<td>Concentrations :</td>
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<table>
<thead>
<tr>
<th>Met</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
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<td>Used</td>
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<td>Total Required :</td>
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This is NOT an official evaluation.

Area : Major Coursework ( 39.000 credits ) - Not Met
Description : Must have a grade of 'C' or better in all area coursework.

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<tr>
<td>No</td>
<td>AND B. CVEN 221 3hrs</td>
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<td>AND C. CVEN 302 3hrs</td>
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<td>No</td>
<td>AND E. CVEN 305 3hrs</td>
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<td>No</td>
<td>AND H. CVEN 322 3hrs</td>
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<td>AND I. CVEN 345 3hrs</td>
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Add: Rule P. CVEN 399 0hrs

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

9/30/2015
unofficial evaluation

<table>
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<tr>
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Total Credits and GPA

unofficial evaluation

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<th>Credits</th>
<th>Courses</th>
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<tr>
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<td>D. CVEN 365 3hrs</td>
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<td>E. CVEN 400 3hrs</td>
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<td>Select from CVEN 342-343.</td>
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<td>G. Focus Elect. I 6hrs</td>
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<td></td>
<td>Select from CVEN 455, 458, 463.</td>
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<td>Select from CVEN 336, 402-403, 406, 413, 421, 423, 454, OCEN 336, 400.</td>
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<td>I. Focus Elect. III 3hrs</td>
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<tr>
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<td>Select from CVEN 336, 402-403, 406, 413, 421, 423, 454-455, 458, 463, OCEN 336, 400.</td>
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<tr>
<td></td>
<td>Science Elect. 3hrs</td>
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<tr>
<td></td>
<td>Select from AGRO 445; ATMO 201; BIOL 206; GEOL 320, 410; RENR 205, 375, 444.</td>
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Add CVEN 462
Add CVEN 455, 458, 462, 463
Remove

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
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<tbody>
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<td>Must have a grade of 'C' or better.</td>
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<tr>
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<th>Condition Rule Subject Attribute Low High Required Terms Subject Course Title Attribute</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A. ENGL 104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>AND B. Communication Rqmt. 3hrs</td>
<td></td>
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<tr>
<td></td>
<td>Select from ENGL 210; COMM 205.</td>
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</table>

Total Credits and GPA 0.000

https://compass-ssb.tamu.edu/pls/PROD/bwckapp_P_VerifyDispEvalViewOption 9/30/2015
unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Mathematics (8,000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Description</td>
<td>Must have a grade of 'C' or better in all area coursework.</td>
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<tr>
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</tr>
<tr>
<td>No</td>
<td>A. MATH 151</td>
</tr>
<tr>
<td>No</td>
<td>AND B. MATH 152</td>
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Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Life and Physical Sciences (12,000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Description</td>
<td>Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>AND A. CHEM 107 and 117</td>
</tr>
<tr>
<td>No</td>
<td>AND B. PHYS 218</td>
</tr>
<tr>
<td>No</td>
<td>AND C. PHYS 208</td>
</tr>
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</table>

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Language, Philosophy &amp; Culture (3,000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Must have a grade of 'C' or better in all area coursework.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. ENGR 482</td>
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Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Creative Arts (3,000 credits) - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Creative Arts Requirement.</td>
</tr>
<tr>
<td></td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Social and Behavioral Sciences (3,000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
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</tr>
<tr>
<td>No</td>
<td>A. Social Science Reqmt 3hrs.</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the Social and Behavioral Science attribute [KSOIC].</td>
</tr>
</tbody>
</table>

https://compass-ssb.tamu.edu/pls/PROD/bwceckapp.P_VerifyDispEvalViewOption

9/30/2015
### unofficial evaluation

**Area:** Citizenship (12.000 credits) - Not Met  
**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
</table>
| No  | A. American History Rqmt 6hrs  
Select from any course with the [KHS] attribute. |
| No  | AND  
B. Political Science Rqmt 6hrs  
Take POLS 206 and POLS 207. |

### unofficial evaluation

**Area:** Work Not Applied - Met  
**Description:** See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
</tr>
</tbody>
</table>

### unofficial evaluation

**Area:** University Writing Requirement - Not Met  
**Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
</table>
| No  | A. Writing Requirement  
Two courses required.  
Must make grade of 'C' or better.  
Only sections of CVEN 424; ENGR 482; PHIL 482 with the Writing attribute [UWRT] may be used to satisfy this requirement. |

### unofficial evaluation

**Area:** Int'l & Cult Diversity - Not Met  
**Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
</table>
| No  | A. Int'l & Cultural Diversity 6hr  
Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 269 with the UWRT attribute). |

---

9/30/2015

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption
Area: Foreign Language – Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Foreign Language Rqmt</td>
<td>Complete one of the following:</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

unofficial evaluation

Area: Residence Requirement – Not Met

| Description | A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field. |

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Residence-Major 12hrs</td>
<td>Select from CVEN 300-499.</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Residence 300-499 24hrs</td>
<td>Select any courses level 300-499.</td>
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Total Credits and GPA: 0.000

unofficial evaluation

Area: GPR-Major – Not Met

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<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td>A.</td>
<td>Major GPR 55+hrs</td>
<td>Select from AGEN 320; BAEN 320; CVEN 100-499; ECEN 215; ENGR 111-112, 482; MEEN 315, 363; PHIL 482.</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

unofficial evaluation

Back to Display Options

1
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF ENGINEERING TECHNOLOGY AND INDUSTRIAL DISTRIBUTION
BS IN ELECTRONIC SYSTEMS ENGINEERING TECHNOLOGY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   □ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, M.D. etc.)

2. Request change for:
   □ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Electronic Systems Engineering Technology

4. Program Designation and Name
   (e.g., B.A. in History Minor in History, Certificate in European Union)
   B.S. in Electronic Systems Engineering Technology

5. Brief description of change:
   - Change course number ESET 151 to ESET 319
   - Reduce semester credit hours for ESET 211 from 4.0 to 3.0
   - Add ESET 325 as a prerequisite for ESET 352
   - Add ESET 319 as a prerequisite for ESET 419
   - Add ENGR 111/112 as required courses
   - Delete ESET 452 (It will become a technical elective)

6. Rationale for change:
   ESET 151 will be offered to sophomore/junior students before they take the capstone courses.
   ENGR 111/112 are added to the ESET curriculum to be in line with the other engineering department's policy. To maintain the same total credit hours, ESET 452 is deleted and ESET 211's credit hour is reduced by 1.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.
   □ Yes  □ No

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   □ Yes  □ No

   b. If yes, degree program hours will change: from: ________ to: ________

   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      http://www.thecb.texas.edu/index.cfm?objectid=4019171A-9A92-1111-2756AD31BB11041D60
      □ Yes  □ No

9. If proposed changes affect other unit(s), are letters of support attached?
   □ Yes  □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University must complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Rega Langari  9/28/15

Department Head or Program Chair (Type Name & Sign)  Date

Dean of College  Date

Chair, College Review Committee  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sande@tamu.edu
Curricular Services – 04/14

RECEIVED  OCT 23 2015
Electronic Systems Engineering Technology - BS

Electronic Systems Engineering Technology (ESET) prepares students for careers in electronic product and system development across a diverse range of industries that include the medical, power, computer networking, automotive, telecommunications, and quality of life sectors. While graduates of the program receive a rigorous technical education and typically take engineering and technology positions within industry, they are also well prepared for positions in technical sales and project management. The ESET curriculum is based on a strong underpinning of engineering math and science courses followed by a core technical sequence. These include analog and digital electronics, embedded systems design, real-time software development using C and assembly language, wireless communications data communications, instrumentation and control. Throughout their curriculum, students work on multiple open-ended projects to design, implement, test, and evaluate hardware and software systems. One of the most unique aspects of the Electronic Systems Engineering Technology program is that almost every technical course provides a hands-on laboratory experience using facilities equipped with state-of-the-art computer systems, test equipment, and industry-standard computer-aided design and analysis packages. The technical curriculum is augmented with coursework in written and oral communications, product/system development, device/system testing and technical project management. A team-based Industry-sponsored capstone design sequence provides a challenging opportunity to apply technical, managerial, and communications skills to solving a real-world problem.


ESET Program Mission

The Electronic Systems Engineering Technology Program at Texas A&M University prepares graduates for immediate impact and long-term career success by providing a real-world experiential education coupled with personalized undergraduate experiences in electronics product development, test, system integration, and engineering research.

ESET Program Educational Objectives

The Electronic Systems Engineering Technology Program at Texas A&M has as its primary educational objectives to produce graduates who, after three to five years:

- possess the technical skills to be immediately productive and have successful careers in regional, state or national electronic product and system development industries
- demonstrate increasing levels of leadership and responsibility during their careers
- exhibit a commitment to professional ethics in their professional career
- display a desire for life-long learning through continued education, technical training, and/or professional development

A continuous cycle of assessment and program improvement is used to ensure that these objectives are being met. Through interactions with industry and academic partners, the Electronic Systems Engineering Technology program continues to offer a state-of-the-art curriculum that produces successful graduates.

Program Requirements

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 111</td>
<td>Foundation of Engineering I 1,2</td>
<td>2</td>
</tr>
<tr>
<td>ESET 367</td>
<td>Engineering Leadership 2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric 1,2</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 107</td>
<td>General Chemistry for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 117</td>
<td>Students and General Chemistry for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I 1,2,3</td>
<td>4</td>
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<tr>
<td>University Core Curriculum</td>
<td>3</td>
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<tr>
<td>Term Semester Credit Hours</td>
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<tbody>
<tr>
<td>MATH 152</td>
</tr>
<tr>
<td>PHYS 218</td>
</tr>
<tr>
<td>ESET 112</td>
</tr>
<tr>
<td>University Core Curriculum</td>
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<tr>
<td>Term Semester Credit Hours</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>ESET 210</td>
</tr>
<tr>
<td>ESET 219</td>
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<tr>
<td>ESET 269</td>
</tr>
<tr>
<td>Mathematics 2.5</td>
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<td>University Core Curriculum</td>
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<tr>
<td>Term Semester Credit Hours</td>
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<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>ESET 211</td>
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<tr>
<td>ESET 315</td>
</tr>
<tr>
<td>ESET 329</td>
</tr>
<tr>
<td>PHYS 208</td>
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<tr>
<td>Term Semester Credit Hours</td>
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<table>
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<tr>
<th>Third Year</th>
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<tbody>
<tr>
<td>Fall</td>
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<td>ESET 319</td>
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<td>ESET 350</td>
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<td>ESET 355</td>
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<tr>
<td>Technical Elective 2-4</td>
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<td>Term Semester Credit Hours</td>
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<table>
<thead>
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<th>Spring</th>
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<tbody>
<tr>
<td>ESET 352</td>
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<tr>
<td>Course</td>
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<tr>
<td>ESET 359</td>
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<td>ESET 369</td>
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<td>ESET 415</td>
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**Fourth Year**

**Fall**

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<tbody>
<tr>
<td>ESET 419</td>
<td>Engineering Technology Capstone I ²</td>
<td>3</td>
</tr>
<tr>
<td>ESET 452</td>
<td>Electronics Testing II ³</td>
<td>3</td>
</tr>
<tr>
<td>ESET 455</td>
<td>Wireless Transmission Systems ²</td>
<td>4</td>
</tr>
<tr>
<td>ESET 462</td>
<td>Control Systems ²</td>
<td>4</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ESET 420</td>
<td>Engineering Technology Capstone II ²</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 462/PHIL 482</td>
<td>Ethics and Engineering ²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core Curriculum ⁴</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technical elective ²</td>
<td>3</td>
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</table>

**Term Semester Credit Hours**

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
<th>Total Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>127</td>
</tr>
</tbody>
</table>

1. Completion of ENGL 104, MATH 151, MATH 152, CHEM 107/117, PHYS 218 with C or better required for degree sequence.

2. Course used to calculate in-major grade point ratio. Grade of C or better is required.

3. Entering students will be given a placement test in mathematics. Test results will be used in selecting the appropriate starting course which may be at a higher level or lower level.

4. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from intermational and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.

5. See departmental advisor for a list of approved electives.

This curriculum lists the minimum number of classes required for graduation. Additional courses may be taken.
<table>
<thead>
<tr>
<th>First Year</th>
<th></th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 111</td>
<td>Foundation of Engineering I</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 107 &amp; CHEM 117</td>
<td>General Chemistry for Engineering Students and General Chemistry for Engineering Students Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Engineering Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>University Core Curriculum</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Term Semester Credit Hours</strong></td>
<td>16</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 152</td>
<td>Engineering Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 218</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Foundation of Engineering II</td>
<td>2</td>
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<tr>
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<tr>
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<table>
<thead>
<tr>
<th>Second Year</th>
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<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESET 210</td>
<td>Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ESET 219</td>
<td>Digital Electronics (University Core Curriculum)</td>
<td>4</td>
</tr>
<tr>
<td>ESET 269</td>
<td>Embedded Systems Development in C</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics</td>
<td>4</td>
</tr>
<tr>
<td>University Core Curriculum</td>
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<tr>
<td><strong>Term Semester Credit Hours</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESET 211</td>
<td>Power Systems and Circuit Applications</td>
<td>3</td>
</tr>
<tr>
<td>ESET 315</td>
<td>Local-and-Metropolitan-Area Networks</td>
<td>4</td>
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<td>ESET 319</td>
<td>Engineering Leadership</td>
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<td>ESET 333</td>
<td>Product Development</td>
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<td>ESET 350</td>
<td>Analog Electronics</td>
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<td>ESET 355</td>
<td>Electromagnetics and High Frequency Systems</td>
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<td>ESET 352</td>
<td>Electronics Testing I</td>
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<td>ESET 359</td>
<td>Electronic Instrumentation</td>
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<td>Advanced Network Systems and Security</td>
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<td>ESET 455</td>
<td>Wireless Transmission Systems</td>
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<td>ESET 419</td>
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<td>ESET 462</td>
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<td>Communication</td>
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<td>ESET 420</td>
<td>Engineering Technology Capstone II</td>
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ENGR 482/PHIL 482  Ethics and Engineering  3
University Core Curriculum  3
Technical elective  3

Term Semester Credit Hours  11
Total Semester Credit Hours:  127

Completion of ENGL 104, MATH 151, MATH 152, CHEM 107/117, PHYS 218, ENGR 111/112 with C or better required for degree sequence.

Course used to calculate in-major grade point ratio. Grade of C or better is required.

Entering students will be given a placement test in mathematics. Test results will be used in selecting the appropriate starting course which may be at a higher level or lower level.

Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.

See departmental advisor for a list of approved electives.

This curriculum lists the minimum number of classes required for graduation. Additional courses may be taken.
# Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

## Program Evaluation

**Limitation**
- Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
- Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

<table>
<thead>
<tr>
<th>Program</th>
<th>BS ESET</th>
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<tbody>
<tr>
<td>Campus</td>
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<tr>
<td>College</td>
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<td>Majors</td>
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<td>Departments</td>
<td>Eng Tech &amp; Ind Distribution</td>
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<th>Fall 2015 - College Station</th>
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This is NOT an official evaluation.

## Area Major Coursework (77.000 credits) Not Met:

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<td>ESET 211</td>
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<td>E</td>
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11/14/2015

Official Requirements

**Detail Requirements**

- Must make a grade of 'C' or better.
- Must make a grade of 'C' or better.
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- Must make a grade of 'C' or better.

**Unofficial Evaluation**

**Area Communication (6.000 credits) - Not Met**

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**Unofficial Evaluation**

**Area Mathematics (11.000 credits) - Not Met**

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**Unofficial Evaluation**

**Area Life and Physical Sciences (12.000 credits) - Not Met**

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https://compass-bsb.tamu.edu/pls/PROD/bwckcapp_P_VerifyDispEvalViewOption
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Area Language, Philosophy & Culture (3.000 credits) - Not Met

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unofficial evaluation

Area Creative Arts (3.000 credits) - Not Met

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<tr>
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<td>A.</td>
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<td>Creative Arts Requirement Select three hours from any course with the Creative Arts attribute [KCRA]</td>
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unofficial evaluation

Area Social and Behavioral Sciences (3.000 credits) - Not Met

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<th>Required Courses</th>
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<tr>
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unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met

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<th>Credits</th>
<th>Required Courses</th>
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<tr>
<td>No</td>
<td>A.</td>
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<td>American History Rqnt 6hrs Select from any course with the [KHIS] attribute.</td>
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<td>No AND B.</td>
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<td>Political Science Rqnt 6hrs Take POLS 206 and POLS 207.</td>
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unofficial evaluation

Area: Work Not Applied - Met

<table>
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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption
unofficial evaluation

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<td>A. Writing Requirement</td>
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<td>Two courses required</td>
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<td>Only sections of ENTC 419, ENGR 482, PHIL 482 the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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unofficial evaluation

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<td>Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source</td>
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<td>A. Int'l &amp; Cultural Diversity 6hr</td>
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<td>Select from courses with the International and Cultural Diversity attribute [UCID] (except sections of BUSN 295 with the UWRT attribute).</td>
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unofficial evaluation

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<td>A. Foreign Language Reqnt</td>
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<td>Complete one of the following</td>
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<td></td>
<td>1. Two years of the same foreign language in High School</td>
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<td>2. A two semester sequence of the same foreign language for University credit</td>
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unofficial evaluation

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<th>Area : Residence Requirement - Not Met</th>
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<td>Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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unofficial evaluation

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<th>Area : GPR-Major - Not Met</th>
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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption
A. Major GPA

Select from ENTC 100-499; CHEM 102, 107; ENGL 104; ENGR 385, 482; MATH 151, 152, 251, 304, 308; PHYS 208, 218, 219; STAT 211; PHIL 482.

Must maintain a GPA of 2.000 in all courses taken.

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING
BS IN INDUSTRIAL ENGINEERING
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)
   ☑ Degree Program ☐ Minor ☐ Certificate

2. Request change for:

3. Request submitted by (Department or Program Name):
   Industrial and Systems Engineering

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Industrial Engineering

5. Brief description of change: The Industrial and Systems Engineering (ISEN) department has performed a complete overhaul of its courses and redesigned its curriculum. All required ISEN courses have changed and new electives have been developed. There are no new non-ISEN course in the curriculum, but two existing non-ISEN courses have been dropped.

6. Rationale for change: The current curriculum is over 20 years old, and it is proposed to be revamped to meet the needs of the stakeholders. The new curriculum is flexible, and aligns with seven skill sets for industrial engineers and four focus areas identified by the department. It prepares students in computational and methodological tools of industrial engineering tools in the sophomore and junior years. Students are offered a chance to specialize in one of the four focus areas by selecting appropriate ISEN Technical Electives where they have the opportunity to apply the computational and methodological tools. The new curriculum allows the development of new technical electives in emerging areas aligned with the focus areas. It offers an honors track for high achieving students as well as the ability to pursue minors and certificates in related areas.

7. a. Proposed curriculum attached. ☑ Yes ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No
      Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☑ Yes ☐ No
   b. If yes, degree program hours will change: from _______ to _______.
   c. If yes, is the Texas Higher Education Coordinating Board form attached? ☑ Yes ☐ No
      http://www.thecb.state.tx.us/index.cfm?objectid=4F9F7FA-9A92-4F11-2756AD3EB7BF011D60

9. If proposed changes affect other unit(s), are letters of support attached? ☑ Yes ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Cesar O. Martinez, Department Head or Program Chair 9/30/15
Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.valle@texasam.edu.
Curricular Services - 09/14
Degree Plan for the new undergraduate curriculum.

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# Industrial Engineering - BS

The four-year curriculum in industrial engineering at Texas A&M is designed to provide students with a solid basis in mathematics and science, as well as in engineering economics, manufacturing systems, production and inventory control, operations research, quality engineering, reliability, facilities planning and materials handling. The program culminates with a senior design course in which students apply principles and knowledge acquired through the curriculum to an actual industrial problem.

## Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing an entering student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students in those fields take CHEM 101/114 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for those majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

### First Year

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<th>Fall</th>
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<td>ENGR 111</td>
<td>Foundations of Engineering I ¹</td>
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<td>MATH 151</td>
<td>Engineering Mathematics I ¹ ²</td>
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<td>PHYS 218</td>
<td>Mechanics ³</td>
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### Spring

| MATH 107 | General Chemistry for Engineering Students ¹ | 3 |
| CHEM 117 | General Chemistry for Engineering Students Laboratory ¹ | 1 |
| ENGR 112 | Foundations of Engineering II ¹ | 2 |
| MATH 152 | Engineering Mathematics II ¹ | 4 |
| PHYS 208 | Electricity and Optics ¹ | 4 |
| University Core Curriculum ³ | | 3 |
| **Term Semester Credit Hours** | | **17** |

### Second Year

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<td>MME 181</td>
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### Third Year

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<tbody>
<tr>
<td>ISEN 314</td>
<td>Statistical Control of Quality</td>
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<td>ISEN 315</td>
<td>Production Systems Planning</td>
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<td>ISEN 316</td>
<td>Production Systems-Operations</td>
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<td>MEEN 315</td>
<td>Principles of Thermodynamics</td>
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<td><strong>Term Semester Credit Hours</strong></td>
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¹ A grade of C or better is required.
² Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
³ Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.

BMEN, CHEN and RN6 require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/114 or CHEM 107/117 and CHEM 102/112. Credit by Examination (CBE) for CHEM 101/114 or CHEM 107/117 plus CHEM 102/112, or 8 hours of CBE for CHEM 101/114 or CHEM 107/117 and CHEM 102/112.
<table>
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<th>Term</th>
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Total Semester Credit Hours: 93

A total of 12 hours of technical electives is required, of which 6 hours must be industrial engineering courses. The choice of courses to be taken must be made in consultation with the student's advisor and/or the Industrial Engineering Advising Office.

The Bachelor of Science degree in Industrial Engineering requires a grade of C or better for required industrial engineering (ISEN) courses. If a course is repeated, only the most recent grade is used in fulfilling this requirement.

Total Program Hours: 128
Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation: Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation: Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: INDEN
Catalog Term: Fall 2015 - College Station
Campus: College Station
College: Dept. of Civil and Environmental Engineering
Degree: Bachelor of Science
Level: Graduate
Majors: Industrial Engineering
Departments: Industrial & Systems Engineering

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Total Required: 12.9

Other Course Information
Transfer: 0.00

This is NOT an official evaluation.

Area: Major Coursework (29,000 credits) - Not Met

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unofficial evaluation

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Total Credits and GPA: 0.000 .00

unofficial evaluation

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Total Credits and GPA: 0.000 .00

unofficial evaluation

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Total Credits and GPA: 0.000 .00

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<td>Only sections of ENGR 482; ENG 446, 462;</td>
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<td>MATH 482 with the Writing attribute [WRAT] may be used to satisfy this requirement.</td>
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<td>Complete one of the following:</td>
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<td>1. Two years of the same foreign language in High School.</td>
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<td>2. A two semester sequence of the same foreign language for university credit.</td>
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unofficial evaluation

Back to Display Options
LETTERS OF SUPPORT

Letters enclosed in support of the following: (1) the department of mechanical engineering regarding dropping MEEN 315, and (2) the department of statistics for dropping STAT 212 and for offering ISEN 310.
MEMORANDUM

Date: September 23, 2015

To: Dr. Andreas Polycarpou
   Department Head, MEEN

Through: Dr. Cesar Malave
         Department Head, ISEN

From: Dr. N. Gautam
      Associate Head for Undergraduate Affairs, ISEN

RE: Dropping of MEEN 315 from the new industrial engineering undergraduate curriculum

We are in the process of revamping the industrial engineering undergraduate curriculum. One of the changes that we are making in the new curriculum is to drop MEEN 315. This change allows us to develop and offer content in the area of modeling and analysis of stochastic systems, which is one of the areas that industrial engineering students and graduates often encounter in their professional careers.

This change has been carefully evaluated and vetted by the undergraduate curriculum committee. There are several peer programs that have dropped the equivalent of MEEN 315 from their curriculum. This change does not adversely affect the ABET engineering science requirement.

We would be happy to answer any questions about this proposed change. If you agree with the proposed change, please sign the memorandum below so that we can include it in the change of curriculum packet.

Signature

Name

Date
MEMORANDUM

Date: September 23, 2015

To: Dr. Valen Johnson  
   Department Head, STAT

Through: Dr. Cesar Malave  
   Department Head, ISEN

From: Dr. N. Gautam  
   Associate Head for Undergraduate Affairs, ISEN

RE: Changes in the new industrial engineering undergraduate curriculum

We are in the process of revamping the industrial engineering undergraduate curriculum. One of the changes that we are making in the new curriculum is to drop STAT 212. The undergraduate curriculum committee performed a comprehensive review of the existing curriculum and determined that the ISEN courses that require probability and statistics background were only using a small portion of the material that is covered in STAT 212. However, STAT 211 would remain as a required course for ISEN undergraduate students.

The committee has proposed a new course titled "ISEN 310 Uncertainty Modeling in Industrial Engineering" at the junior level that uses the topics covered in STAT 211. This course focuses on industrial engineering applications of probability and statistics, and will better prepare students to take the other required and elective ISEN courses that require understanding of theory and engineering applications of probability and statistics.

We would be happy to answer any questions about this proposed change. If you agree with the proposed change, please sign the memorandum below so that we can include it in the change of curriculum packet.

Signature

Name

Date

9/29/15
Texas Higher Education Coordinating Board
Request to Change Semester Credit Hours

Directions: An institution shall use this form to request a change in the number of semester credit hours (SCH) required for a degree program already on the institution's program inventory in accordance with Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55 – Revisions to Approved Programs.

Options:

1) Revisions that reduce the number of SCH require notification of change and affirmation that the reduction does not fall below the minimum requirements of the Southern Association of Colleges and Schools Commission on Colleges, program accreditors, and licensing bodies, if applicable.

2) Revisions that increase the number of SCH require detailed written documentation describing the compelling academic reason for the increase in the number of required hours.

NOTE: No request or notification is needed if revisions to the degree program curriculum do not result in a change in SCH.

Options 1 and 2 require the signature of the Provost or Chief Academic Officer.

Please submit Request to Change Semester Credit Hour via the Online Submission Portal: https://www1.thecb.state.tx.us/apps/proposals/

Information: Contact the Division of Workforce, Academic Affairs and Research at 512/427-6200.

Administrative Information

1. Institution: Texas A&M University, College Station

2. Program Name – As it appears on the Coordinating Board’s program inventory (e.g., Bachelor of Business Administration degree with a major in Accounting); Bachelor of Science with a major in Industrial Engineering

3. Program CIP Code: 143501

4. Contact Person: Provide contact information for the person who can answer specific questions about the program.

   Name: Cesar Malave
   Title: Head of Industrial and Systems Engineering Department
   E-mail: malave@tamu.edu
   Phone: 979-845-5535
Form for SCH Changes
Page 2

Notification/Request for Change in Semester Credit Hours (SCH):

Current SCH: 126

Proposed SCH: 128

Implementation Date: 9/1/2016

Complete Option 1 or 2 as appropriate

Option 1: Reduction in Semester Credit Hours

Is the change in the number of SCH compatible with the requirements of accreditation for the program?

a. Southern Association of Colleges and Schools Commission on Colleges
   □ YES □ NO

b. Program Accréditor(s)
   □ YES □ NO □ NA
   Name of Program Accréditor: ______________________

c. Licensing Body(ies)
   □ YES □ NO □ NA
   Name of Licensing Body(ies): ______________________

Option 2: Increase in Semester Credit Hours

Provide detailed documentation, such as changes in accrediting agency or licensing body requirements, workforce needs, or academic professional standards and needs, describing a compelling reason for the change in the number of SCH:

Recently the SCH dropped from 128 to 126 by removing two Kinesiology classes from the curriculum. During the process of the new curriculum development the industrial engineering undergraduate curriculum committee performed a (i) comprehensive evaluation of the needs of potential employers of industrial engineers, and (ii) benchmark of peer industrial engineering programs at other public institutions in the US. These activities revealed that a laboratory-based course on industrial engineering design at the sophomore level would positively address some of the existing employer needs. The development of this laboratory-based design course requires a change in the SCH to the previous 128 credit hours. This change positively impacts the design requirements of ABET, will potentially improve student retention due to the design experience, will embellish the design process in the junior and senior years of the curriculum, and makes the curriculum competitive as compared to peer programs in other public institutions.

Signature of Compliance

I hereby certify that all of the above changes have been approved in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55.

Provost/Chief Academic Officer ______________________ Date ____________
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF ENGLISH
BA IN ENGLISH
Texas A&M University
Request for a Change in Curriculum
Undergraduate ✴ Graduate ✴ Professional

1. Program request type:
   ☑ Undergraduate  □ Graduate  □ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.A. in English

4. Brief description of change:
The General Electives Area in the English degree plan is reserved for non-ENGL courses. We want to allow students who major in English to be able to use up to 12 hours of upper level ENGL courses in the General Electives Area.

5. Rationale for change:
   We want our students to have the flexibility of taking more ENGL courses, and to be able to use them in their degree plan.

6. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached.
      ☑ Yes  □ No
   b. Current catalog curriculum with handwritten edits attached.
      ☑ Yes  □ No
   c. Current Howdy degree evaluation with handwritten edits attached.
      ☑ Yes  □ No

7. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
    □ Yes  ☑ No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      ☑ Yes  □ No

8. IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]
Date

[Signature]
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-sokoloski@tamu.edu
Curricular Services – 04/14
ENGLISH DEGREE PLAN
CATALOG 139 – FALL 2016

LAST NAME ___________________________ FIRST ________________________ UIN ___________________________

This document is a general outline to assist in academic planning. It does not constitute a contract or imply assurance of graduation. It should be used along with -- not in place of -- the undergraduate catalog, the degree evaluation system in Howdy, and consultation with an academic advisor.

Requirements:
- Complete 120 hours with a minimum 2.0 GPA overall and a minimum 2.0 GPA in major coursework.
- Make a “C” or better in all coursework within the major.
- Complete 36 upper-division (300 and 400-level) hours in residence, 12 hours of which must be in major coursework.
- Complete two ENGL courses formally designated as writing intensive. (identifiable by 900 section number)
- Incorporate 6 hours from the list of approved courses for International & Cultural Diversity into your degree plan.

COMMUNICATION (6 hours)
Attribute: Core Communication (KCOM)

ENGL 104, 210, COMM 203, 205 or 243 ........... 3 ___
Note: ENGL 104 recommended

ENGL 203 .............................................. 3 ___

MAJOR COURSEWORK (33 hours)

APPROACHES

ENGL 303 .............................................. 3 ___
Note: Should be taken in first semester as an ENGL major.

LITERARY HISTORIES I

ENGL 221, 227, 231, 313, 314, 315, 317, 353,
412, 414, or 431 .................................... 3 ___

LITERARY HISTORIES II

ENGL 222, 232, 316, 321, 322, 323, 373, 375,
or 377 ............................................ 3 ___

LITERARY HISTORIES III

ENGL 228, 336, 337, 340, 350, 352, 356, 372,
376, 378, 379 or 401 ............................ 3 ___

LITERARY HISTORIES IV

ENGL 204, 205, 329, 333, 338, 339, 357, 362,
374, 391, 393 or 474 ............................ 3 ___

SENIOR SEMINAR

ENGL 481 .............................................. 3 ___

MAJOR CONCENTRATIONS/ELECTIVES
(15 hours)

Select 5 courses. You may choose additional courses from Literary Histories or the English Electives lists on page 3.

______________________________ 3 ___

______________________________ 3 ___

______________________________ 3 ___

______________________________ 3 ___

______________________________ 3 ___

FOREIGN LANGUAGE (14 hours)
Attribute: Foreign Lang

Complete 14 hours, through the intermediate level, of one language. If you choose to enroll in a language you have studied previously without receiving college credit, you must first take a placement test through the Department of Hispanic Studies or the Department of International Studies.

ARAB FREN PORT
CHIN GERM RUSS
CLAS (GRK) ITAL SPAN
CLAS (LTN) JAPN

(4) (4) (3) (3)
MATHEMATICS (6 hours)
Attribute: Core Mathematics (KMTH)
Any MATH course 131-467 (except 365 or 366)
MATH __________________________ 3 ___
MATH __________ or PHIL 240 __________ 3 ___

LIFE & PHYSICAL SCIENCES (9 hours)
Attribute: Core Life/Physical Sci (KLPS)
Note: Courses numbered 484, 485, or 489 are excluded.

CREATIVE ARTS AND LANGUAGE, PHILOSOPHY & CULTURE (9 hours) Attributes: Core Creative Arts (KCRA) and Core Lang, Phil, Culture (KLPC)
Note: Options exclude ENGL courses.

SOCIAL & BEHAVIORAL SCIENCES (6 hours)
Attribute: Core Social & Beh Sci (KSOC)

AMERICAN HISTORY (6 hours)
Attribute: Core American History (KHIS)

GOVERNMENT / POLITICAL SCIENCE (6 hours)
Attribute: Core Fed Gov/Pol Sci (KPLF)
Core Local Gov/Pol Sci (KPLL)
POLS 206 __________ 3 ___ (KPLF)
POLS 207 __________ 3 ___ (KPLL)

GENERAL ELECTIVES (25 hours)
Up to 12 hours of 300-499 ENGL coursework may be used.

INTL/CULTURAL DIVERSITY (6 hours)
Attribute: Univ Req-Intl’l&Cult Div (UICD)

RESIDENCE REQUIREMENT (36 hrs. of 300/400-level)

OPTIONAL MINOR (15-18 hours minimum)
The minor must be declared before the student has completed 75 hours. No course with a grade below "C" may be used.
### Additional Courses for Concentrations and English Electives

#### LITERATURE AND FILM
- ENGL 202-Environmental Literature
- ENGL 206-21st Century Literature
- ENGL 212-Shakespeare
- ENGL 219-Lit and the Other Arts
- ENGL/FILM 251-Intro to Film Analysis
- ENGL 308-History of Literary Criticism
- ENGL 330-Arthurian Literature
- ENGL 331-Fantasy Literature
- ENGL 334-Sci Fi Present and Past
- ENGL/FILM 351-Advanced Film
- ENGL 360-Literature for Children
- ENGL 361-Young Adult Literature
- ENGL 365/RELS 360-Bible as Literature
- ENGL 390-Studies in British Literature
- ENGL/RELS 392-Lit Religion and Culture
- ENGL 394-Studies in Genre
- ENGL 396-Studies American Lit
- ENGL 415-St in a Major Author

#### LINGUISTICS
- ENGL/LING 209-Intro to Ling
- LING 307-Language and Culture
- ENGL/LING 310-History of English Language
- ENGL/LING/WGST 403-Language and Gender

#### COMPOSITION AND RHETORIC
- ENGL 104-Composition and Rhetoric
- ENGL 210-Technical and Business Writing
- ENGL 241-Advanced Composition
- ENGL 320-Tech Editing & Writing
- ENGL 354-Modern Rhetorical Theory
- ENGL 355-Rhetoric of Style
- ENGL 461-Advanced Syntax and Rhetoric
- ENGL 462-Rhetoric in Cultural Context

#### CREATIVE WRITING
- ENGL 235-Elements of Creative Writing
- ENGL 345-Writers' Workshop Prose or Poetry
- ENGL 347-Writers Wkshop Prose
- ENGL 348-Writers Wkshop Poetry
- ENGL 359-Forms of Creative Writing
- ENGL 385-Playwriting
- ENGL 386-Creative Nonfiction

#### OTHER
- ENGL 201-Approaches to Literacy
- ENGL 304-Topics in Digital Research
- ENGL 460-Writing for the Web

### Sample Concentrations

You may design a concentration based on your career or post-graduate plans or select any combination of courses based on your own interests. *Remember that not all courses are offered every semester so you will be choosing courses on the basis of their availability.*

#### Creative Writing
*Take ENGL 235-Elements of Creative Writing*

- & then choose four other courses.
- ENGL 345-Writers' Workshop Prose or Poetry
- ENGL 347-Writers Wkshop Prose
- ENGL 348-Writers Wkshop Poetry
- ENGL 359-Forms of Creative Writing
- ENGL 385-Playwriting
- ENGL 386-Creative Nonfiction

#### Rhetoric
- ENGL 353-History of Rhetoric
- ENGL 354-Modern Rhetorical Theory
- ENGL 355-Rhetoric of Style
- ENGL 461-Advanced Syntax and Rhetoric
- ENGL 462-Rhetoric In A Cultural Context

#### Teacher Certification
- ENGL 241-Advanced Composition
- ENGL/LING 209-Intro to Ling
- ENGL/LING 310-History of English Language
- ENGL 361-Young Adult Literature
- ENGL 461-Advanced Syntax and Rhetoric

#### Literature & Film
*Take ENGL/FILM 251-Intro to Film Analysis*

- & then choose four other courses.
- ENGL 219-Lit and the Other Arts
- ENGL/FILM 351-Advanced Film
- ENGL/FILM 356-Literature and Film
- ENGL 394-Studies in Genre (when Film)
- ENGL 415-St in a Major Author *(when screenwriter or director)*
2015-2016 Catalog

English - BA

- Overview

The curriculum in English is designed to allow students to develop concentrations in such areas as composition and rhetoric, creative writing, linguistic, literature and film, or coursework relevant to teacher certification.

- Program Requirements

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 303</td>
<td>Literary Histories I</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 221/MODL 221</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 227</td>
<td>American Literature: The Beginnings to Civil War</td>
<td></td>
</tr>
<tr>
<td>ENGL 231</td>
<td>Survey of English Literature I</td>
<td></td>
</tr>
<tr>
<td>ENGL 313</td>
<td>Medieval English Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 314</td>
<td>The English Renaissance</td>
<td></td>
</tr>
<tr>
<td>ENGL 315</td>
<td>Seventeenth-Century Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 317</td>
<td>Early British Drama</td>
<td></td>
</tr>
<tr>
<td>ENGL 353</td>
<td>History of Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENGL 412</td>
<td>Studies in Shakespeare</td>
<td></td>
</tr>
<tr>
<td>ENGL 414</td>
<td>Milton</td>
<td></td>
</tr>
<tr>
<td>ENGL 431</td>
<td>Chaucer</td>
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<tr>
<td>Literary Histories II</td>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 222/MODL 222</td>
<td>World Literature</td>
<td>3</td>
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<tr>
<td>ENGL 232</td>
<td>Survey of English Literature II</td>
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<tr>
<td>ENGL 316</td>
<td>Eighteenth-Century Literature and Culture</td>
<td></td>
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<tr>
<td>ENGL 321</td>
<td>Nineteenth-Century Literature (Romantic)</td>
<td></td>
</tr>
<tr>
<td>ENGL 322</td>
<td>Nineteenth-Century Literature (Victorian)</td>
<td></td>
</tr>
<tr>
<td>ENGL 323</td>
<td>The American Renaissance</td>
<td></td>
</tr>
<tr>
<td>ENGL 373</td>
<td>American Realism and Naturalism</td>
<td></td>
</tr>
<tr>
<td>ENGL 375</td>
<td>Nineteenth-Century American Novel</td>
<td></td>
</tr>
<tr>
<td>ENGL 377</td>
<td>The British Novel to 1870</td>
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</table>

Literary Histories III

Select one of the following:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL 228</td>
<td>American Literature: Civil War to Present</td>
</tr>
<tr>
<td>ENGL 336</td>
<td>Life and Literature of the Southwest</td>
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</table>
ENGL 337 Life and Literature of the American South
ENGL 340 Modern and Contemporary Drama
ENGL 350 Twentieth-Century Literature to World War II.
ENGL 352 Literature, World War II to Present.
ENGL 356/FILM 356 Literature and Film
ENGL 372 American Poetry
ENGL 376 The American Novel Since 1900
ENGL 378 The British Novel, 1870 to Present.
ENGL 379/AFST 379 Postcolonial Literatures
ENGL 401 Contemporary Literary Theory

Literary Histories IV
Select one of the following:
ENGL 204/AFST 204 Introduction to African-American Literature
ENGL 205/AFST 205 Introduction to Africana Literature
ENGL 329/AFST 329 African-American Literature Pre-1930
ENGL 333/WGST 333 Gay and Lesbian Literature
ENGL 338 American Ethnic Literature
ENGL 339/AFST 339 African-American Literature Post-1930
ENGL 357 Native American Rhetorics and Literatures
ENGL 362/HISP 362 Latino/a Literature
ENGL 374/WGST 374 Women Writers
ENGL 391 Folklore, Literature, and World Cultures
ENGL 393/AFST 393 Studies in Africana Literature and Culture
ENGL 474/WGST 474 Studies in Women Writers
ENGL 481 Senior Seminar

Major concentration/electives
Select five of the following:
ENGL 100-ENGL 499
LING 200-LING 499

College and University Requirements
Communication
Select one of the following:
ENGL 104 Composition and Rhetoric
ENGL 210 Technical and Business Writing
COMM 203 Public Speaking
COMM 205 Communication for Technical Professions
COMM 243 Argumentation and Debate
ENGL 203 Writing about Literature

Foreign language
Mathematics
Life and physical sciences
Creative arts
Language, philosophy and culture 3
Language, philosophy and culture or creative arts 3
Social behavioral sciences 6
POLS 206 American National Government 3
POLS 207 State and Local Government 3
American history 6
General electives (may include optional minor) 25
International and cultural diversity 5
Total Semester Credit Hours 120

1 Majors must complete two ENGL courses formally designated as writing intensive.
2 At least 3 hours must be in MATH. Three hours may be PHIL 240.
3 Middle School Certificate seekers should consult an undergraduate English advisor for required courses.
4 English courses may not be used as elective hours. Up to 12 hours of ENGL 300-499 may be used.
5 International and cultural diversity courses may also be used to satisfy any other requirement.

Up to 39 credits in English can be applied to the degree; at least 21 credits must be in literature. A grade of C or higher is required for a course to be counted in the major. For residency, a student must have at least 12 hours in 300- or 400-level English classes from Texas A&M University.

College and University Requirements

Other courses may qualify for the following categories. All courses are to be selected with the approval of the student’s academic advisor. The courses incorporate University Core Curriculum requirements. No course can be counted in more than one category, except as allowed in the minor field of study and the International and Cultural Diversity graduation requirement. A minimum of 36 hours of 300- or 400-level coursework must be completed at Texas A&M University, with at least 12 of those hours being in the major.

Minor Field of Study

English majors are advised, but not required, to select a minor field of study. Students who elect to complete a minor should contact the department or program that offers the minor to determine the requirements for that minor. A grade of C or higher is required for a course to be counted in the minor field. A minor field must be declared before the student has completed 75 credit hours.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 156 may be used in this degree program.

Limitation Only 14 hours of KINE 199; AERS 100-499; MLSC 100-499; NVSC 100-499 may be used in this degree program to include hours counted toward Residency.

Program: BA ENGL
Campus: College Station
College: Liberal Arts
Degree: Bachelor of Arts
Level: Undergraduate
Majors: English
Departments: English
Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: 1
Request Number: Oct 06, 2015
Results as of:
Minors:
Concentrations:

<table>
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<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
<td>Required</td>
<td>Used</td>
</tr>
<tr>
<td>Total Required:</td>
<td>No</td>
<td>120.00</td>
</tr>
<tr>
<td>Program GPA:</td>
<td>Yes</td>
<td>.00</td>
</tr>
<tr>
<td>Overall GPA:</td>
<td>No</td>
<td>2.00</td>
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</tbody>
</table>

This is NOT an official evaluation.

Area: Major Coursework (33,000 credits) - Not Met
Description: Must have a grade of 'C' or better in all area coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
</tr>
</thead>
</table>
| No  | A.
     | Approaches 3hrs
     | Take ENGL 303. |
| No  | AND B.
     | Literary Histories I
     | Select from ENGL 221, 227, 231, 313-315, 317, 353, 412, 414, 431. |
| No  | AND C.
     | Literary Histories II 3hrs
| No  | AND D.
     | Literary Histories III 3hrs
| No  | AND E.
     | Literary Histories IV 3hrs
     | Select from ENGL 204, 205, 329, 333, 338, 339, 357, 362, 374, 391, 393, 474. |
| No  | AND F.
     | Senior Seminar 3hrs
     | Take ENGL 481. |
| No  | AND G.
     | Major Concent./Electives 15hrs |

unofficial evaluation

<table>
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<tr>
<th>Area</th>
<th>Communication (6.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Communication Rqmt 3hrs</td>
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<td>Select from ENGL 104, 210; COMM 203, 205, 243.</td>
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<td>No AND</td>
<td>B. ENGL 203 3hrs</td>
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unofficial evaluation

<table>
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<th>Area</th>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Mathematics Rqmt 3hrs</td>
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<tr>
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<td>Select any course with the [KMTM] attribute.</td>
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<tr>
<td>No AND</td>
<td>B. Math/Logic Rqmt 3hrs</td>
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<td>Select from PHIL 240 or any course with the [KMTM] attribute.</td>
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unofficial evaluation

<table>
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<tr>
<th>Area</th>
<th>Life and Physical Sciences (9.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Life/Physical Sciences 9hrs</td>
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<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].</td>
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unofficial evaluation

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<th>Area</th>
<th>Foreign Language (14.000 credits) - Not Met</th>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No ( )</td>
<td>A. Arabic 14hrs</td>
</tr>
<tr>
<td></td>
<td>1. 8 hours. Take ARAB 101 and 102.</td>
</tr>
<tr>
<td></td>
<td>2. 6 hours. Take ARAB 201 and 202.</td>
</tr>
<tr>
<td>No )OR(</td>
<td>B. Chinese 14hrs</td>
</tr>
<tr>
<td></td>
<td>1. 8 hours. Take CHIN 101 and 102.</td>
</tr>
<tr>
<td></td>
<td>2. 6 hours. Take CHIN 201 and 202.</td>
</tr>
<tr>
<td>No )OR(</td>
<td>C. French 14hrs</td>
</tr>
<tr>
<td></td>
<td>1. 8 hours. Take FREN 101 and 102.</td>
</tr>
<tr>
<td></td>
<td>2. 3 hours. Select from FREN 201 or 221.</td>
</tr>
</tbody>
</table>
3. 3 hours. Select from FREN 202 or 222.

No OR

D. German 14hrs
1. 8 hours. Take GERM 101 and 102.
2. 3 hours. Select from GERM 201 or 221.
3. 3 hours. Select from GERM 202 or 222.

No OR

E. Greek 14hrs
1. 8 hours. Take CLAS 101 and 102.
2. 3 hours. Take CLAS 211.
3. 3 hours. Select from CLAS 311 or 312.

No OR

F. Italian 14hrs
1. 8 hours. Take ITAL 101 and 102.
2. 6 hours. Take ITAL 201 and 202.

No OR

G. Japanese 14hrs
1. 8 hours. Take JAPN 101 and 102.
2. 6 hours. Take JAPN 201 and 202.

No OR

H. Latin 14hrs
1. 8 hours. Take CLAS 121 and 122.
2. 6 hours. Take CLAS 221 and 222.

No OR

I. Portuguese 14hrs
1. 8 hours. Take PORT 101 and 102.
2. 6 hours. Take PORT 201 and 202.

No OR

J. Russian 14hrs
1. 8 hours. Take RUSS 101 and 102.
2. 6 hours. Select from RUSS 201, 202, 221, 222.

No OR

K. Spanish 14hrs
1. 4 hours. Take SPAN 101.
2. 4 hours. Select from SPAN 102 or 140.
3. 3 hours. Select from SPAN 201 or 221.
4. 3 hours. Select from SPAN 202, 203 or 222.

unofficial evaluation

Area: Lang. Phil. Cult. & Cr. Arts (9,000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No AND A. Creative Arts
Select from any course with the [KCRA] Creative Arts attribute (except ENGL 100-499).

No AND B. Language, Philosophy & Culture
Select from any course with the [KLPC] attribute (except ENGL 100-499).

No AND C. Lang. Phil. Cult. & Cr. Arts
Select from any course with the [KCRA] Creative Arts or [KLPC] Language, Philosophy, and Culture attribute (except ENGL 100-499).

unofficial evaluation

Area: Social and Behavioral Science (6,000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No AND A. Social Science 3hrs
Select from any course with a Social and Behavioral Science [KSOC] attribute.

No AND B. Social Science 3hrs

Select from any course with a Social and Behavioral Science [KSOC] attribute.

### Unofficial Evaluation

**Area:** Citizenship (12.000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

**Met**

<table>
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</tbody>
</table>

A. American History Rqmt 6hrs
   
Select from any course with the [KHS] attribute.

B. Political Science Rqmt 6hrs
   
Take POLS 206 and POLS 207.

### Unofficial Evaluation

**Area:** General Electives (25.000 credits) - Not Met

**Met**

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</table>

A. General Electives 25hrs

Select any 100-499 course not used elsewhere, except ENGL 100-499.

(except ENGL 100-499, up to 13 hours of ENGL 300-499 may be used)

### Unofficial Evaluation

**Area:** Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

**Met**

<table>
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A. Courses not applied

### Unofficial Evaluation

**Area:** University Writing Requirement - Not Met

**Met**

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<th>Required</th>
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</table>

A. Writing Requirement

Two courses required.

Only sections of ENGL 100-499; UCST 481, 491; UCST 474

with the Writing attribute [UWRT] or the Oral Communication attribute [UCRT] may be used to satisfy this requirement.

### Unofficial Evaluation
Area : Int'l & Cult Diversity - Not Met

Met   Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No   A. Int'l & Cultural Diversity 6hr
    Select from courses with the International and Cultural Diversity attribute (UICD) (except sections of BUSN 209 with the UWRT attribute).

Total Credits and GPA  0.000

unofficial evaluation

Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

Met   Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No   A. Residence - Major 12hrs
No   AND  B. Residence - 300-499 24hrs

Total Credits and GPA

unofficial evaluation

Area : GPR-Major - Not Met

Description : A GPR of 2.00 must be maintained in all major field courses.

Met   Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No   A. Major GPR 30+hrs
    Includes ENGL 100-499; MODL 221-222.

Total Credits and GPA

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF INTERNATIONAL STUDIES
BA IN MODERN LANGUAGES - FRENCH TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: √Undergraduate □Graduate □First Professional (e.g., DFM, JD, MD, etc.)

2. Request change for: √Degree Program □Minor □Certificate

3. Request submitted by (Department or Program Name): International Studies

4. Program Designation and Name (e.g., B.A. in History, Minor in History, Certificate in European Union): B.A. in Modern Languages: French

5. Brief description of change:
Simplify electives in degree plan to 27 hours of FREN 300-499, with minimum of 9 hours at the 400-level. Allow any FREN courses not used elsewhere in the degree plan to count as general electives.

6. Rationale for change:
Change in program requirements responds to updating and expansion of course offerings in the degree. Former degree plan required 2 specific 400-level courses (FREN 410 and FREN 418), but new plan will allow students to choose from a broader list of electives in FREN.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. √Yes □No

b. Current catalog curriculum with handwritten edits attached. √Yes □No

c. Current Howdy degree evaluation with handwritten edits attached. √Yes □No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □Yes √No

b. If yes, degree program hours will change from: to:

c. If yes, is the Texas Higher Education Coordinating Board form attached? □Yes □No

http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4f/11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? □Yes □No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robert R. Shandley
Department Head or Program Chair (Type Name & Sign) Date

Nancy J. Atten, Dean of College Date

Chair College Review Committee Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14

RECEIVED OCT 23 2015 CURRICULAR SERVICES
B.A. in Modern Languages: French

Program Requirements

Required Courses
FREN 201  Intermediate French I  3
or FREN 221  Field Studies I
FREN 202  Intermediate French II  3
or FREN 222  Field Studies II
FREN 300-FREN 499*  27

Minor Requirement
All majors must select 15-18 hours in a minor field of study  15-18

College, University Requirement
ENGL 104  Composition and Rhetoric  3
Select one of the following:  3
    ENGL 203  Writing about Literature
    ENGL 210  Technical and Business Writing
    COMM 203  Public Speaking
    COMM 205  Communication for Technical Professions
    COMM 243  Argumentation and Debate
Literature in English  6
Mathematics  6
Language, philosophy, and culture  3
Creative arts  3
Life and physical sciences  9
Social and behavioral science  6
American history  6
POLS 206  American National Government  3
POLS 207  State and Local Government  3
International and cultural diversity
General electives  18-21

TOTAL Semester Credit Hours  120

*Minimum of 9 hours at the 400-level.
Modern Languages - BA, French Option

The department offers a wide range of courses in Modern Languages at all levels of the undergraduate curriculum as part of its mission to support and advance the international and global competencies of university students. At present, students can earn a BA in Modern Languages with options in French, German or Russian. Courses are designed to offer students extended study of the language, literatures, and cultures of these language communities. The department insists on a high competence in the language, which is the basis for all other options. Students will be required to complete, by coursework or placement test, all 100- and 200-level courses in sequence (except FREN 221/FREN 222, GERM 221/GERM 222 and RUSS 221/RUSS 222, which are taken concurrently) before taking any upper-level course, unless an upper-level course permits co-registration or skipping a lower course in the sequence (see inventory of courses for prerequisites). Once a student has received credit for a higher-level language course, the student is no longer eligible to receive credit for prerequisite courses. In addition to classes at the College Station campus, the department offers summer study abroad programs for credit. Departmental faculty and advising staff also work closely with students to match their interests with semester and full-year programs abroad.

Program Requirements

Required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>FREN 201</td>
<td>Intermediate French I</td>
<td>3</td>
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<tr>
<td>or FREN 221</td>
<td>or Field Studies I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 202</td>
<td>Intermediate French II</td>
<td>3</td>
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<tr>
<td>or FREN 222</td>
<td>or Field Studies II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 300-FREN 399</td>
<td>Seminar in French Literature</td>
<td>2 or 3</td>
</tr>
<tr>
<td>FREN 410</td>
<td>Seminar in French Literature</td>
<td>3</td>
</tr>
<tr>
<td>FREN 418</td>
<td>Seminar in French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 400-FREN 469</td>
<td>Seminar in French Civilization</td>
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Minor Requirement

All majors must select 15-18 hours in a minor field of study \(^1\) 15-18

College, University Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
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<td>Select one of the following:</td>
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<tr>
<td>ENGL 203</td>
<td>Writing about Literature</td>
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<td>Communication for Technical Professions</td>
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<tr>
<td>COMM 243</td>
<td>Argumentation and Debate</td>
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Literature in English | 8
Mathematics \(^2\) | 6
Language, philosophy and culture | 3
Creative arts | 3
Life and physical sciences | 9
Social and behavioral science | 6
American history | 6
POLS 206 | American National Government | 3
POLS 207 | State and Local Government | 3
International and cultural diversity \(^3\) | 3

General electives | 18-21
Total Semester Credit Hours | 120

\(^1\) Minimum of 9 hours at the 400-level.
\(^2\) At least three hours must be in MATH. Three hours may be PHIL 240.
\(^3\) Courses may be used to satisfy other requirements.

Minor Field of Study

All Modern Language majors must select a minor field of study from departments or divisions within or outside of the College of Liberal Arts or in a particular area of interest (as in the case of Interdisciplinary minors). The minor will consist of a minimum of 15 hours of coursework, as defined by the minor department. No more than 9 credit hours may be at the 100-299 level. Interdisciplinary minors such as women's and gender studies, classical studies, religious studies, and business have specific requirements; students should consult undergraduate advisors in these areas of study. A second major may substitute for the minor. Courses used to meet the minor requirements may not be used in the major. See also the statement on "Minor Field of Study" under the general requirements of the College of Liberal Arts. In general, the careful combination of foreign language skills with other major curricula enhances preparation for careers in business, industry and government. Teaching certification is available to majors through the College of Education and Human Development. Consult the College of Education and Human Development section under secondary teacher certification for additional information.

Any departmental major must earn a "C" or better in all major and minor coursework.

Other courses may qualify for the college and university requirements categories. Students should consult the approved list of courses available in the Undergraduate Student Services Office in the College of Liberal Arts. The list incorporates University Core Curriculum requirements. No course can be counted in more than one category.
### Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

#### Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 166 may be used in this degree program.

Limitation Only 14 hours of KINE 199; AERS 100-499; HLSIC 100-499; NVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward Residency.

Limitation Only 12 hours of FREN 200-299 may be used in this degree program.

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<td>Evaluation Term :</td>
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<td>Expected Graduation Date :</td>
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Other Course Information

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<td>No AND</td>
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unofficial evaluation

Total Credits and GPA 0.00 .00
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<td>First make a grade of &quot;C&quot; or better.</td>
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*Select from any courses with the Communication attribute (CGH).*


**Total Credits and GPA**

|         | 0.000 | .00 |

Unofficial Evaluation

### Area Mathematics (6.000 credits) - Not Met

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</table>

*Select any course with the [MATH] attribute.*

*Select from PHIL 240 or any course with the [LOGIC] attribute.*

**Total Credits and GPA**

|         | 0.000 | .00 |

Unofficial Evaluation

### Area Life and Physical Sciences (9.000 credits) - Not Met

<table>
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<tr>
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<th>Condition</th>
<th>Rule</th>
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<th>Attribute</th>
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<th>High</th>
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<th>Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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</tr>
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<tbody>
<tr>
<td>A</td>
<td></td>
<td>Life/Physical Sciences 9hrs</td>
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</tr>
</tbody>
</table>

*Select 9 hours from any courses with the Life and Physical Sciences attribute (LPS).*

**Total Credits and GPA**

|         | 0.000 | .00 |

Unofficial Evaluation

### Area Language, Philosophy & Culture (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
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<th>Rule</th>
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<th>Attribute</th>
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<th>Required Courses</th>
<th>Term</th>
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<th>Course</th>
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<th>Grade</th>
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<tbody>
<tr>
<td>A</td>
<td></td>
<td>Language, Philosophy &amp; Culture</td>
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</tbody>
</table>

*Select from any course with the [LPC] attribute (except FREN 109 - 109).*

**Total Credits and GPA**

|         | 0.000 | .00 |

Unofficial Evaluation

### Area Creative Arts (3.000 credits) - Not Met

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<th>Credits</th>
<th>Required Courses</th>
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<th>Grade</th>
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</table>

**Total Credits and GPA**

|         | 0.000 | .00 |
unofficial evaluation

Area: Social and Behavioral Science (6.000 credits) - Not Met

<table>
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<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Credits</th>
<th>Courses</th>
<th>Term Subject</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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<tr>
<td>No</td>
<td>A. Social Science 3hrs</td>
<td>Select from any course with the Social Science attribute [VSOC].</td>
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</tr>
<tr>
<td>No</td>
<td>AND B. Social Science 3hrs</td>
<td>Select from any course with the Social &amp; Behavioral Science attribute [VSOC].</td>
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</table>

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met

Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
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<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Credits</th>
<th>Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. American History Remt 6hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND B. Political Science Remt 6hrs</td>
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unofficial evaluation

Area: General Electives (36.000 credits) - Not Met

<table>
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<th>Subject</th>
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<th>Low</th>
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<th>Required</th>
<th>Credits</th>
<th>Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. General Electives 36hrs Includes 15-18 hours of courses that were used to satisfy the minor requirement and 18-21 hours of 100-499 courses not used elsewhere.</td>
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unofficial evaluation

Area: Work Not Applied - Met

Description: See advisor for acceptable substitutions.

<table>
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<th>Subject</th>
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<th>High</th>
<th>Required</th>
<th>Credits</th>
<th>Courses</th>
<th>Term Subject</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
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<td></td>
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</table>
### Area: Required Minor - Not Met

<table>
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<th>Attribute</th>
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<th>Credits</th>
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<th>Credits</th>
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<tbody>
<tr>
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<td></td>
<td>Required Minor</td>
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</tbody>
</table>

A minor is required for this degree program. You have not declared your minor yet. Please see your advisor to do so.

Total Credits and GPA: 0.000 .00

Unofficial Evaluation

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### Area: University Writing Requirement - Not Met

<table>
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<tr>
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<td>Writing Requirement</td>
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</tbody>
</table>

Two courses required.
- Only sections of ENGL 331, 336, 491 with the Writing attribute [WRIT] may be used to satisfy this requirement.

Total Credits and GPA: 0.000 .00

Unofficial Evaluation

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### Area: Int'l & Cult Diversity - Not Met

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>No</td>
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<td>Int'l &amp; Cultural Diversity 6hr</td>
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</table>

Select from courses with the International and Cultural Diversity attribute [IDIV] (except sections of BUSN 289 and the UWRIT attribute).

Total Credits and GPA: 0.000 .00

Unofficial Evaluation

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### Area: Residence Requirement - Not Met

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<tbody>
<tr>
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<td>Residence - Major 12hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
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<td>Residence - 300-499 24hrs</td>
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Unofficial Evaluation

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### Area: GPR-Major - Not Met

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<th>Grade</th>
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<tbody>
<tr>
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<td>Major GPR 3.0</td>
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</table>

A GPR of 3.0 must be maintained in all major field courses.

Total Credits and GPA: 0.000 .00
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF INTERNATIONAL STUDIES
BA IN MODERN LANGUAGES - GERMAN TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (ex, DVM, JD, MD, etc.)

2. Request change for:
☑ Degree Program ☐ Minor ☐ Certificate

3. Request submitted by (Department or Program Name):
International Studies

4. Program Designation and Name
(e.g., B.A. in History, Minor in History, Certificate in European Union):
B.A. in Modern Languages: German

5. Brief description of change:
Simplify electives in degree plan to 21 hours of GERM 300-499, with minimum of 6 hours at the 400-level. Allow any GERM courses not used elsewhere in the degree plan to count as general electives.

6. Rationale for change:
Change in program requirements responds to updating and expansion of course offerings in the degree. Former degree plan required 2 specific 400-level courses (GERM 410 and GERM 411), but new plan will allow students to choose from a broader list of electives in GERM.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? http://www.thecb.state.tx.us/index.cfm?objectid=A0F9E7FA-9A92-4F11-2756AD1BDFF01D60 ☐ Yes ☐ No

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Robert R. Shandley 9/29/15

Department Head or Program Chair (Type Name & Sign) Date

Harry J. Steele 10/19/15
Chair, College Review Committee Date

Dean of College 10/20/15

Chair, GC or UCC Date

 Questions regarding this form should be directed to Curricular Services at 845-2201 or sandra.williams@tamu.edu
Curricular Services – 04/14
B.A. in Modern Languages: German

Program Requirements

Required Courses
GERM 201  Intermediate German I  3
or GERM 221  Field Studies I
GERM 202  Intermediate German II  3
or GERM 222  Field Studies II
GERM 310  Composition  3
GERM 315  Literary Investigations: German Short Fiction  3
GERM 300-GERM 499*  21

Minor Requirement
All majors must select 15-18 hours in a minor field of study  15-18

Study Abroad Requirement
All German majors are required to study abroad

College, University Requirement
ENGL 104  Composition and Rhetoric  3
Select one of the following:  3
   ENGL 203  Writing about Literature
   ENGL 210  Technical and Business Writing
   COMM 203  Public Speaking
   COMM 205  Communication for Technical Professions
   COMM 243  Argumentation and Debate
Literature in English  6
Mathematics  6
Language, philosophy, and culture  3
Creative arts  3
Life and physical sciences  9
Social and behavioral science  6
American history  6
POLS 206  American National Government  3
POLS 207  State and Local Government  3
International and cultural diversity
General electives  18-21

TOTAL Semester Credit Hours  120

*Minimum of 6 hours at the 400-level.
Modern Languages - BA, German Option

The department offers a wide range of courses in Modern Languages at all levels of the undergraduate curriculum as part of its mission to support and advance the international and global competencies of university students. At present, students can earn a BA in Modern Languages with options in French, German or Russian. Courses are designed to offer students extended study of the language, literatures, and cultures of these language communities. The department insists on a high competence in the language, which is the basis for all other options. Students will be required to complete, by coursework or placement test, all 100- and 200-level courses in sequence (except FREN 221/FREN 222, GERM 221/GERM 222 and RUSS 221/GERM 222, which are taken concurrently) before taking any upper-level course, unless an upper-level course permits co-registration or skipping a lower course in the sequence (see inventory of courses for prerequisites). Once a student has received credit for a higher-level language course, the student is no longer eligible to receive credit for prerequisite courses. In addition to classes at the College Station campus, the department offers summer study abroad programs for credit. Departmental faculty and advising staff also work closely with students to match their interests with semester and full-year programs abroad.

Program Requirements

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 221 or Field Studies I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERM 202</td>
<td>Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 222 or Field Studies II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERM 310</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERM 319</td>
<td>Literary Investigations: German Short Fiction</td>
<td>3</td>
</tr>
<tr>
<td>GERM 410</td>
<td>Seminar in German Literature and Culture (emphasizing inquiry and research skills)</td>
<td>9</td>
</tr>
<tr>
<td>GERM 411</td>
<td>German Author and Genre Studies (emphasizing inquiry and research skills)</td>
<td>3</td>
</tr>
<tr>
<td>GERM 321-GERM 419</td>
<td>9</td>
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<tr>
<td>GERM 300-GERM 499</td>
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</table>

Minor Requirement

All majors must select 15-18 hours in a minor field of study 3

Study Abroad Requirement

All German majors are required to study abroad 3

College, University Requirement

ENGL 104 Composition and Rhetoric 3

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 203</td>
<td>Writing about Literature</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>Technical and Business Writing</td>
</tr>
<tr>
<td>COMM 203</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>COMM 205</td>
<td>Communication for Technical Professions</td>
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<tr>
<td>COMM 243</td>
<td>Argumentation and Debate</td>
</tr>
<tr>
<td>Literature in English</td>
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<td>Mathematics</td>
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<tr>
<td>Language, philosophy and culture</td>
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<tr>
<td>Creative arts</td>
<td></td>
</tr>
<tr>
<td>Life and physical sciences</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 120

1. GERM 334, GERM 410 and GERM 411 may be repeated for credit with different content.
2. See the Minor Field of Study paragraph.
3. See the Study Abroad Requirement paragraph.
4. At least three hours must be in MATH. Three hours may be PHIL 240.
5. Courses may be used to satisfy other requirements.

Minor Field of Study

All Modern Language majors must select a minor field of study from departments or divisions within or outside of the College of Liberal Arts or in a particular area of interest (as in the case of interdisciplinary minors). The minor will consist of a minimum of 15 hours of coursework, as defined by the minor department. No more than 9 credit hours may be at the 100-299 level. Interdisciplinary minors such as women's and gender studies, classical studies, religious studies, and business have specific requirements; students should consult undergraduate advisors in these areas of study. A second major may substitute for the minor. Courses used to meet the minor requirements may not be used in the major. See also the statement on "Minor Field of Study" under the general requirements of the College of Liberal Arts. In general, the careful combination of foreign language skills with other major curricula enhances preparation for careers in business, industry and government. Teaching certification is available to majors through the College of Education and Human Development. Consult the College of Education and Human Development section under secondary teacher certification for additional information.

Study Abroad Requirement

All German majors are required to study for one semester or summer in a German-speaking country approved by the department.

Any departmental major must earn a "C" or better in all major and minor coursework.

Other courses may qualify for the college and university requirements categories. Students should consult the approved list of courses available in the Undergraduate Student Services Office in the College of Liberal Arts. The lists incorporate University Core Curriculum requirements. No course can be counted in more than one category.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 483 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 146 may be used in this degree program.

Limitation Only 14 hours of KINE 199; AERS 100-499; HLSC 100-499; NVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward Residency.

Limitation Only 12 hours of GERM 200-299 may be used in this degree program.

<table>
<thead>
<tr>
<th>Program</th>
<th>BA MODL-German</th>
<th>Catalog Term</th>
<th>Fall 2015 - College Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus</td>
<td>College Station</td>
<td>Evaluation Term</td>
<td>Fall 2015 - College Station</td>
</tr>
<tr>
<td>College</td>
<td>Liberal Arts</td>
<td>Expected Graduation Date</td>
<td>Jul 14, 2015</td>
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<td>Degree</td>
<td>Bachelor of Arts</td>
<td>Results as of:</td>
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<td>Majors</td>
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<tr>
<td>Total Required</td>
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<td>Program GPA</td>
<td>Yes</td>
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<tr>
<td>Overall GPA</td>
<td>No</td>
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Other Course Information

Transfer: 0.000 0

This is NOT an official evaluation.

Area Major Coursework (34.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Courses Term Subject Course Title Attribute Credits Grade Source

No AND A. GERM 201 Must make a grade of "C" or better.
No AND B. GERM 202 Must make a grade of "C" or better.
No AND C. GERM 310 Must make a grade of "C" or better.
No AND D. GERM 315 Must make a grade of "C" or better.
No. AND E. GERM 410. Must make a grade of "C" or better.
No AND F. GERM 411 Must make a grade of "C" or better.
No AND G. GERM Elect 1 90s Must make a grade of "C" or better.
Select from GERM Elect 1 90s, GERM Elect 2 499 and GERM Elect 3 499 and may be repeated for credit
No AND H. GERM Elect 2 499 400-499
No AND I. GERM Elect 2 499 15 Ltrs.
unofficial evaluation

Area Communication (12.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Met</th>
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<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
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<tr>
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<td>ENGL 104</td>
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<td>Must make a grade of &quot;C&quot; or better.</td>
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<tr>
<td></td>
<td>B</td>
<td>Communication Rngt 3hrs</td>
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<td>Select from any course with the communication attribute (HCOMM).</td>
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<td></td>
<td>C</td>
<td>Literature Rngt 3hrs</td>
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unofficial evaluation

Area Mathematics (6.000 credits) - Not Met

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<th>Attribute</th>
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<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
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<th>Grade</th>
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<tr>
<td></td>
<td>A</td>
<td>Mathematics Rngt 3hrs</td>
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<td>Select any course with the [MATH] attribute.</td>
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<tr>
<td></td>
<td>B</td>
<td>Math/Logic Rngt 3hrs</td>
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<tr>
<td></td>
<td></td>
<td>Select from PHIL 240 or any course with the [MATH] attribute.</td>
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unofficial evaluation

Area Life and Physical Sciences (9.000 credits) - Not Met

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<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Required Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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<tr>
<td></td>
<td>A</td>
<td>Life/Physical Sciences 9hrs</td>
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<td>Select 6 hours from any course with the Life and Physical Sciences attribute ([LPCS]).</td>
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unofficial evaluation

Area Language, Philosophy & Culture (3.000 credits) - Not Met

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<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Required Courses</th>
<th>Term Subject Course Title</th>
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<th>Grade</th>
<th>Source</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>Language, Philosophy &amp; Culture</td>
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<td></td>
<td></td>
<td>Select from any courses with [LPC] attribute except GERM 160-499.</td>
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Total Credits and GPA 0.000 0.00
 unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Creative Arts (3,000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits Required Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Creative Arts 3hrs</td>
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 unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Social and Behavioral Science (6,000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits Required Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Social Science 3hrs</td>
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<tr>
<td>No AND B. Social Science 3hrs</td>
<td>Select from any course with the Social &amp; Behavioral Science attribute (KSOC).</td>
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 unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Citizenship (12,000 credits) - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. American History Reqmt 6hrs</td>
</tr>
<tr>
<td>No AND B. Political Science Reqmt 6hrs</td>
<td>Total POLS 206 and POLS 207.</td>
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 unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>General Electives (36,000 credits) - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits Required Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. General Electives 36hrs</td>
</tr>
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</table>

 unofficial evaluation

| Area                  | Work Not Applied - Met |

3 of 5
<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Unofficial Evaluation</th>
</tr>
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<tbody>
<tr>
<td>Required Minor - Not Met</td>
<td>A minor is required for this degree program. You have not declared your minor yet. Please see your advisor to do so.</td>
<td>Total Credits and GPA 0.00 0.00</td>
</tr>
<tr>
<td>University Writing Requirement - Not Met</td>
<td>Two courses required. Only sections of IDS/MA 210, 316, 333, 411, 491; WGST 400 with Writing attribute [W/F] may be used to satisfy this requirement.</td>
<td>Total Credits and GPA 0.00 0.00</td>
</tr>
<tr>
<td>Int'l &amp; Cult Diversity - Not Met</td>
<td>Select from courses with the International and Cultural Diversity attribute (ICD) (except sections of 683 299 with the UWIT attribute).</td>
<td>Total Credits and GPA 0.00 0.00</td>
</tr>
<tr>
<td>Residence Requirement - Not Met</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
<td>Total Credits and GPA 0.00 0.00</td>
</tr>
</tbody>
</table>
Area: GPA-Major - Not Met
Description: A GPA of 2.00 must be maintained in all major field courses.

<table>
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<th>Rule</th>
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<th>Attribute</th>
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<th>Course Title</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A</td>
<td>Major GPA 33 hrs</td>
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</table>

unofficial evaluation

Back to Display Options

5
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF INTERNATIONAL STUDIES
MINOR IN GERMAN
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   ☐ Degree Program ☑ Minor ☐ Certificate

3. Request submitted by (Department or Program Name):
   International Studies

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   Minor in German

5. Brief description of change:
   Simplify electives in degree plan to 9 hours of GERM 300-499.

6. Rationale for change:
   Former electives list included individual courses, but new plan will allow students to choose from a broader list of electives in GERM.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes ☐ No
    b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
    c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
    b. If yes, degree program hours will change from: ________ to: ________
    c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐ Yes ☐ No

   http://www.thecb.state.tx.us/index.cfm?objectid=5DF97FA3-9A92-4F11-2756AD3BBFF01D69

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Robert R. Shandsley
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Dean of College Date
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14

RECEIVED
OCT 23 2015
CURRICULAR SERVICES
MINOR in German

Program Requirements

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>GERM 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 221</td>
<td>Field Studies I</td>
<td></td>
</tr>
<tr>
<td>GERM 202</td>
<td>Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 222</td>
<td>Field Studies II</td>
<td></td>
</tr>
<tr>
<td>GERM 310</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 315</td>
<td>Literary Investigations: German Short Fiction</td>
<td></td>
</tr>
<tr>
<td>GERM 300-GERM 499</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

TOTAL Semester Credit Hours 18

Students must make a grade of C or better in all minor coursework.
German - Minor

The Minor in German is an academic program open to all students at the university. The minor combines courses in German language and culture, and is a valuable complement to the academic portfolio of any student majoring in the humanities, social sciences, or natural sciences, who wishes to add an international dimension to their intellectual profile. In addition, German studies faculty offer study abroad programs in order to enrich student learning experiences and cultural knowledge while helping students attain higher proficiency in the language.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 201</td>
<td>Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 221</td>
<td>or Field Studies I</td>
<td></td>
</tr>
<tr>
<td>GERM 202</td>
<td>Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>or GERM 222</td>
<td>or Field Studies II</td>
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<tr>
<td>GERM 310</td>
<td>Composition</td>
<td>3</td>
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<tr>
<td>or GERM 315</td>
<td>or Literary Investigations: German Short Fiction</td>
<td>9</td>
</tr>
</tbody>
</table>

Select three of the following:

- EURO 237 - The German Reunion
- GERM 300 - GERM 399
- GERM 311 - Conversation
- GERM 319 - GERM 499

Total Semester Credit Hours 18

Students must make a grade of C or better.
unofficial evaluation

**Area**: German Minor (18.000 credits) - Not Met

**Description**: No grade below a 'C' is acceptable.

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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Intermediate German I 3hrs</td>
<td>Must make a grade of 'C' or better. Select from GERH 201, 271.</td>
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<tr>
<td>No AND</td>
<td>B.</td>
<td>Intermediate German II 3hrs</td>
<td>Must make a grade of 'C' or better. Select from GERH 202-203, 272.</td>
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</tr>
<tr>
<td>No AND</td>
<td>C.</td>
<td>300-Level GERH Right 3hrs</td>
<td>Must make a grade of 'C' or better. Select from GERH 310 or 315.</td>
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<tr>
<td>No AND</td>
<td>D.</td>
<td>GERH Elect 3hrs</td>
<td>Must make a grade of 'C' or better. Select from GERH 301-303, 305-310, 313-314, 316-499.</td>
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**GERH 300-499**

Total Credits and GPA: 0.000 0.00

unofficial evaluation

**Area**: University Writing Requirement - Not Met

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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Writing Requirement Course I</td>
<td>Only sections with prefix of ASRA, ASRAE, ASRD, PRTN, GISRT, IRTA, JPN, KORRS, SPAN with the Writing attribute [UWRT] or INTS 201, 400-480, 481, 491 or 497, USST 481 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
<td></td>
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<tr>
<td>No AND</td>
<td>B.</td>
<td>Writing Requirement Course II</td>
<td>Only sections of INTS 201, 400-480, 481, 491 or 497; USST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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Total Credits and GPA: 0.000 0.00

unofficial evaluation

**Area**: Int'l & Cult Diversity - Not Met

<table>
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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
<td>Select from courses with the International and Cultural Diversity attributes [IUCD] (except sections of BUSH 209 with the UWRT attribute).</td>
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Total Credits and GPA: 0.000 0.00

unofficial evaluation

**Area**: Residence Requirement - Not Met

**Description**: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
<th>Courses</th>
</tr>
</thead>
</table>

Total Credits and GPA: 0.000 0.00
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PHILOSOPHY
BA IN PHILOSOPHY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   - Undergraduate  
   - Gradute  
   - First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  
   - Degree Program  
   - Minor  
   - Certificate

3. Request submitted by (Department or Program Name):  
   Philosophy

4. Program Designation and Name  
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   B.A. in Philosophy

5. Brief description of change:
   Increase flexibility in order to bring the curriculum in-line with national standards. The new curriculum will require 3 hours of introductory philosophy, 9 hours in three areas of history of philosophy, and 18 hours of electives. It will require that PHIL 240 fulfill one of the two MATH requirements.

6. Rationale for change:
   An education that is grounded in the history of philosophy will provide students with a strong foundation from which to pursue all other philosophical inquiry.

   By increasing the number of electives from 3 hours to 18 hours, majors will be able to take PHIL courses that were not previously available to them.

   Students will now be able to take a number of courses in a single area, and then write a two-term (6 hour) honors thesis as part of the degree.

7. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached.  
   - Yes  
   - No
   b. Current catalog curriculum with handwritten edits attached.  
   - Yes  
   - No
   c. Current Howdy degree evaluation with handwritten edits attached.  
   - Yes  
   - No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   - Yes  
   - No
   b. If yes, degree program hours will change from:  
   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
   - Yes  
   - No
   http://www.thecb.state.tx.us/index.cfm?objectid=A0EF9E7EA-9A02-4F11-2756AD3BBF01D62

9. If proposed changes affect other unit(s), are letters of support attached?  
   - Yes  
   - No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:  

[Signature]  
10/21/15
Department Head or Program Chair (Type Name & Sign)  
Date

[Signature]  
10/20/15
Dean of College  
Date

[Signature]  
10-19-15
Chair, College Review Committee  
Date

[Signature]  
Chair, GC or UCC  
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or slanka-villani@tamu.edu.
Curricular Services - 04/14
B.A. in Philosophy

Program Requirements

Core Courses: 12 Credits.

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td><strong>Introduction to Philosophy.</strong> Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>PHIL 111 Contemporary Moral Issues</td>
</tr>
<tr>
<td></td>
<td>PHIL 205 Technology and Human Values</td>
</tr>
<tr>
<td></td>
<td>PHIL 208 Philosophy of Education</td>
</tr>
<tr>
<td></td>
<td>PHIL 251 Introduction to Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 252 Introduction to Hip-Hop Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 283 Latin American Philosophy</td>
</tr>
<tr>
<td>3</td>
<td><strong>Ancient and Medieval Philosophy.</strong> Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>HUMA 304 Indian and Oriental Religions</td>
</tr>
<tr>
<td></td>
<td>PHIL 410 Classical Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 411 Medieval Philosophy</td>
</tr>
<tr>
<td>3</td>
<td><strong>Modern Philosophy.</strong> Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>PHIL 412 Seventeenth-Century Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 413 Modern Philosophy</td>
</tr>
<tr>
<td>3</td>
<td><strong>19th and 20th Century Philosophy.</strong> Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>PHIL 414 Nineteenth Century Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 415 American Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 416 Recent British and American Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHIL 417 Phenomenology</td>
</tr>
<tr>
<td></td>
<td>PHIL 418 Existentialism</td>
</tr>
</tbody>
</table>

Electives: 18 Credits

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Any six PHIL courses to be chosen in consultation with an advisor. At least four of the courses must be 300-400 level.</td>
</tr>
</tbody>
</table>

College and University Requirements

Communication: 12 Credits

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ENGL 104 Composition and Rhetoric</td>
</tr>
<tr>
<td>3</td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td>ENGL 203 Writing about Literature</td>
</tr>
<tr>
<td></td>
<td>ENGL 210 Technical and Business Writing</td>
</tr>
<tr>
<td></td>
<td>COMM 203 Public Speaking</td>
</tr>
<tr>
<td></td>
<td>COMM 205 Communication for Technical Professions</td>
</tr>
<tr>
<td></td>
<td>COMM 243 Argumentation and Debate</td>
</tr>
<tr>
<td>6</td>
<td>Literature in English: Selected any course from an approved college list.</td>
</tr>
</tbody>
</table>

Mathematics: 6 Credits

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Phil 240 Introduction to Logic</td>
</tr>
<tr>
<td>3</td>
<td>MATH Select any course with the KMTH attribute.</td>
</tr>
</tbody>
</table>

Life and Physical Sciences: 9 Credits

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Select any course with the KLPS attribute.</td>
</tr>
</tbody>
</table>
**Foreign Language: 14 Credits**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Selected any 14 hours in a single language from the University Core Curriculum.</td>
</tr>
</tbody>
</table>

**Language, Philosophy and Culture or Creative Arts: 9 Credits**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td><strong>Creative Arts</strong> Select any courses with the KCRA attribute.</td>
</tr>
<tr>
<td>3</td>
<td><strong>Language, Philosophy and Culture</strong> Select any courses with the KLPC attribute, except PHIL 100-499.</td>
</tr>
<tr>
<td>3</td>
<td><strong>Language, Philosophy and Culture and Creative Arts</strong> Select any courses with the KLPC attribute, or the KCRA attribute except PHIL 100-499.</td>
</tr>
</tbody>
</table>

**Social and Behavioural Sciences: 6 Credits**

<table>
<thead>
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<th>Credit</th>
<th>Course</th>
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<tbody>
<tr>
<td>6</td>
<td>Select any course with the KOSC attribute.</td>
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</tbody>
</table>

**Citizenship: 12 Credits**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>POLS 206 American National Government</td>
</tr>
<tr>
<td>3</td>
<td>POLS 207 State and Local Government</td>
</tr>
<tr>
<td>6</td>
<td>American History Select any course with the KHS attribute.</td>
</tr>
</tbody>
</table>

**General Electives: 22 Credits**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Any 22 courses, including PHIL courses.</td>
</tr>
</tbody>
</table>

**University Writing Requirement**

Any two PHIL courses with the UWRT attribute.

**International and Cultural Diversity**

Any two classes with the UICD attribute, except BUSN 289 with the UWRT attribute.

**Residency Requirement**

12 Credits in the major to be completed at TAMU.

24 Credits at the 300-499 level to be completed at TAMU.

**Total: 120 Credits**
Philosophy - BA

The program in philosophy at Texas A&M is structured to provide students with the skills necessary to appreciate more fully the central concerns of human existence and develop abilities in problem-solving, communication, persuasion, writing, and critical thinking.

Program Requirements

PHIL 240 Introduction to Logic
or PHIL 241 Symbolic Logic
or PHIL 242 Symbolic Logic II

PHIL 306 Philosophy of the Natural Sciences
or PHIL 307 Philosophy of the Social Sciences
or PHIL 351 Theory of Knowledge

PHIL 320 Philosophy of Mind
or PHIL 331/PHIL 334 Philosophy of Religion
REL 331

PHIL 356 Metaphysics
PHIL 340 Philosophy of Art
or PHIL 332 Social and Political Philosophy
or PHIL 301 Ethical Theory

PHIL 410 Classical Philosophy
PHIL 412 Seventeenth-Century Philosophy
PHIL 413 Eighteenth-Century Philosophy

Select one of the following:

PHIL 444 Nineteenth-Century Philosophy
PHIL 447 Phenomenology
PHIL 448 Existentialism
PHIL 449 Current Continental Philosophy

PHIL 451 American Philosophy
or PHIL 450 Recent British and American Philosophy
or PHIL 424 Philosophy of Language

Philosophy electives (any PHIL course including above)

College and University Requirements

ENGL 104 Composition and Rhetoric
Select one of the following:

ENGL 203 Writing about Literature
ENGL 210 Technical and Business Writing
COMM 203 Public Speaking
COMM 205 Communication for Technical Professions
COMM 243 Argumentation and Debate

Literature in English
Foreign language
Mathematics
Life and Physical Sciences
Language, philosophy, and culture
Creative arts
Social and behavioral sciences
POLS 206 American National Government
POLS 207 State and Local Government
American history

International and cultural diversity
Electives

Total Semester Credit Hours

1. All majors must take at least one logic course. If a logic course is used to fulfill part of the University requirement in logical/mathematical reasoning, one additional philosophy course must be taken to fulfill the departmental requirement of 30 credits.

2. At least 3 hours must be in MATH. Three hours may be PHIL 240.

3. Two or more courses, minimum of one course shall include a corresponding laboratory. The other course must come from these courses or others approved for the University Core Curriculum. One course must include a corresponding laboratory.

4. Courses only in U.S. History.

5. Minors hours are included; however, philosophy courses may not be used as elective hours.

6. 30 credits minimum; no more than 33 credits in philosophy can be applied to the degree. Students choose at least one course from each category in philosophy. A grade of C or higher is required for a course to be counted in the major field.

7. PHIL 115/PHIL 116 Contemporary Total Issues
PHIL 205 Technology and Human Values
PHIL 257 Philosophy of Education
PHIL 251 Introduction to Philosophy
PHIL 252 Introduction to Philosophy
PHIL 253 Latin American Philosophy

8. MLAB 304 Indian and Oriental Religion
or PHIL 410 Classical Philosophy
PHIL 411 Medieval Philosophy

9. PHIL 412 Seventeenth Century Philosophy
PHIL 413 Eighteenth Century Philosophy

10. PHIL 414 Nineteenth Century Philosophy
PHIL 415 Twentieth Century Philosophy

11. PHIL 416 American Philosophy
PHIL 417 British and American Philosophy

12. PHIL 418 Phenomenology
PHIL 419 Existentialism

13. PHIL 420 Symbolic Logic
PHIL 421 Symbolic Logic II

14. PHIL 422 Philosophy of Science
PHIL 423 Metaphysics

15. PHIL 424 Philosophy of Language
PHIL 425 Logic

16. PHIL 426 Ethics
PHIL 427 Social and Political Philosophy

17. PHIL 428 Philosophy of Mind
PHIL 429 Philosophy of Religion

18. PHIL 430 Philosophy of Art
PHIL 431 Philosophy of Science

19. PHIL 432 Philosophy of Mind
PHIL 433 Philosophy of Religion

20. PHIL 440 Philosophy of Science
PHIL 441 Philosophy of Mind

21. PHIL 442 Philosophy of Religion
PHIL 443 Philosophy of Mind

22. PHIL 450 Recent British and American Philosophy
PHIL 451 American Philosophy

23. PHIL 452 British and American Philosophy
PHIL 453 Latin American Philosophy

24. PHIL 454 Philosophy of Religion
PHIL 455 Philosophy of Mind

25. PHIL 456 Philosophy of Science
PHIL 457 Philosophy of Religion

26. PHIL 458 Philosophy of Language
PHIL 459 Philosophy of Mind

27. PHIL 460 Philosophy of Science
PHIL 461 Philosophy of religion

28. PHIL 462 Philosophy of Language
PHIL 463 Philosophy of Mind

29. PHIL 464 Philosophy of Science
PHIL 465 Philosophy of Religion

30. PHIL 466 Philosophy of Language
PHIL 467 Philosophy of Mind

31. PHIL 468 Philosophy of Science
PHIL 469 Philosophy of Religion

32. PHIL 470 Philosophy of Language
PHIL 471 Philosophy of Mind

33. PHIL 472 Philosophy of Science
PHIL 473 Philosophy of Religion

34. PHIL 474 Philosophy of Language
PHIL 475 Philosophy of Mind

35. PHIL 476 Philosophy of Science
PHIL 477 Philosophy of Religion

36. PHIL 478 Philosophy of Language
PHIL 479 Philosophy of Mind

37. PHIL 480 Philosophy of Science
PHIL 481 Philosophy of Religion

38. PHIL 482 Philosophy of Language
PHIL 483 Philosophy of Mind

39. PHIL 484 Philosophy of Science
PHIL 485 Philosophy of Religion

40. PHIL 486 Philosophy of Language
PHIL 487 Philosophy of Mind

41. PHIL 488 Philosophy of Science
PHIL 489 Philosophy of Religion

42. PHIL 490 Philosophy of Language
PHIL 491 Philosophy of Mind

43. PHIL 492 Philosophy of Science
PHIL 493 Philosophy of Religion

44. PHIL 494 Philosophy of Language
PHIL 495 Philosophy of Mind

45. PHIL 496 Philosophy of Science
PHIL 497 Philosophy of Religion

46. PHIL 498 Philosophy of Language
PHIL 499 Philosophy of Mind
**Program Evaluation**

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 156 may be included in this degree program.

Limitation Only 14 hours of KINE 199; AFMR 100-499; MSLC 100-499; NVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward Residency.

Program: BA PHIL
Campus: College Station
College: Liberal Arts
Degree: Bachelor of Arts
Level: Undergraduate
Majors: Philosophy
Departments: Philosophy & Humanities

<table>
<thead>
<tr>
<th>Met Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Used</td>
</tr>
<tr>
<td>0</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Program GPA: Yes
Overall GPA: No
No Other Course Information

Transfer: 0.00 0

This is NOT an official evaluation.

**Area Major Coursework (30.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>PHIL Reqmt 1 3hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from PHIL 301-491. Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>B.</th>
<th>PHIL Reqmt II 3hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from PHIL. Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>C.</th>
<th>PHIL Reqmt III 3hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from PHIL 301-491. Must make a grade of &quot;C&quot; or better.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>D.</th>
<th>PHIL Reqmt IV 3hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from PHIL 414, 417, 418. Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>E.</th>
<th>PHIL Reqmt V 18 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ANY PHIL AT LEAST FOUR MUST BE AT THE 300-400 LEVEL.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>F.</th>
<th>PHIL 400</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>G.</th>
<th>PHIL 412 or PHIL 413</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>H.</th>
<th>PHIL Elect One</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from PHIL 100-499. Must make a grade of &quot;C&quot; or better.</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000 .00
unofficial evaluation

**Area Communication (12.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>ENGL 104</td>
<td></td>
<td></td>
<td>Must have a grade of 'C' or better.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td>Communication Reqmt 3hrs</td>
<td></td>
<td></td>
<td>Select from ENGL 203, 210; COMM 203, 205, 243.</td>
<td></td>
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</table>

Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area Mathematics (6.000 credits) - Not Met**

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<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Mathematics Reqmt 3hrs</td>
<td></td>
<td></td>
<td>Select any course with the [KMTH] attribute.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td>Math/Logic Reqmt 3hrs</td>
<td></td>
<td></td>
<td>[PHIL 240] Select any course with the [KMTH] attribute.</td>
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<td></td>
<td></td>
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</table>

Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area Life and Physical Sciences (9.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Life/Physical Sciences 9hrs</td>
<td></td>
<td></td>
<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area Foreign Language (14.000 credits) - Not Met**

<table>
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<tr>
<th>Met Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Arabic 14hrs</td>
<td></td>
<td></td>
<td>1. 8 hours. Take ARAB 101 and 102. 2. 6 hours. Take ARAB 201 and 202.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No OR</td>
<td>B.</td>
<td>Chinese 14hrs</td>
<td></td>
<td></td>
<td>1. 8 hours. Take CHIN 101 and 102. 2. 6 hours. Take CHIN 201 and 202.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No OR</td>
<td>C.</td>
<td>French 14hrs</td>
<td></td>
<td></td>
<td>1. 8 hours. Take FREN 101 and 102. 2. 3 hours. Select from FREN 201 or 221. 3. 3 hours. Select from FREN 202 or 222.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No OR</td>
<td>D.</td>
<td>German 14hrs</td>
<td></td>
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<tr>
<td>Total Credits and GPA 0.000 0.00</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
1. 8 hours. Take GERM 101 and 102.
2. 3 hours. Select from GERM 201 or 221.
3. 3 hours. Select from GERM 202 or 202.

No OR

E. Greek 14hrs
1. 8 hours. Take CLAS 101 and 102.
2. 3 hours. Take CLAS 211.
3. 3 hours. Select from CLAS 311 or 312.

No OR

F. Italian 14hrs
1. 8 hours. Take ITAL 101 and 102.
2. 6 hours. Take ITAL 201 and 202.

No OR

G. Japanese 14hrs
1. 8 hours. Take JAPN 101 and 102.
2. 6 hours. Take JAPN 201 and 202.

No OR

H. Latin 14hrs
1. 8 hours. Take CLAS 121 and 122.
2. 6 hours. Take CLAS 221 and 222.

No OR

I. Portuguese 14hrs
1. 8 hours. Take PORT 101 and 102.
2. 6 hours. Take PORT 201 and 202.

No OR

J. Russian 14hrs
1. 8 hours. Take RUSS 101 and 102.
2. 6 hours. Select from RUSS 201, 202, 221, 222.

No OR

K. Spanish 14hrs
1. 4 hours. Take SPAN 101.
2. 4 hours. Select from SPAN 102 or 104.
3. 3 hours. Select from SPAN 201 or 321.
4. 3 hours. Select from SPAN 202, 203 or 222.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Lang. Phil. Cult. & Cr. Arts (9,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No OR A.</td>
<td>Creative Arts 3hrs</td>
<td>Select from any course with the Creative Arts (KCRA) attribute.</td>
<td>[except ARCH 329, ENGL 411, GERM 101, HIST 101, HIST 103, ITAL 201, ITAL 203, PORT 201, SPAN 201].</td>
<td></td>
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</tr>
<tr>
<td>No AND B.</td>
<td>Language, Philosophy &amp; Culture</td>
<td>Select from any course with the Language, Philosophy, and Culture (KCLP) attribute (except ARCH 329, ENGL 411, GERM 101, HIST 101, HIST 103, ITAL 201, ITAL 203, PORT 201, SPAN 201).</td>
<td>ENGL 316, 318, 320, HIST 101, 103, 213, 218; MUSC 349-351, 353, 355-358, 360, 362, 370, 372, 374; PHIL 100-199; WRIT 110-199.</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Science (6,000 credits) - Not Met

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<th>Term Subject</th>
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<th>Attribute</th>
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</table>
unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

| No | A. | American History Reqnt 6hrs
|    |    | Select from any course with a [KSOE] attribute.
| No | AND B. | Political Science Reqnt 6hrs
|    |    | Take POLS 206 and POLS 207.

unofficial evaluation

Area: General Electives (22.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

| No | A. | General Electives 22hrs
|    |    | Select any 100-999 course not used elsewhere, (choose from 100-999).

unofficial evaluation

Area: Work Not Applied - Met
Description: See advisor for acceptable substitutions.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

| No | A. | Courses not applied

unofficial evaluation

Area: University Writing Requirement - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

| No | A. | Writing Requirement
|    |    | Two courses required.
|    |    | Only sections of PHIL with the Writing attribute [UWRT] may be used to satisfy this requirement.

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met
unofficial evaluation

**Area:** Residence Requirement - Not Met

**Description:** A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

| Met | Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Grade Source |
|-----|-------------------------------------------------|-------------------------------------------------|
| No  | A. Residence - Major 12hrs                        | at least 12 for the major.                    |
| No  | AND B. Residence - 300-499 24hrs                  | 24 hours in the major.                       |

Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area:** GPR-Major - Not Met

**Description:** A GPR of 2.0 must be maintained in all major field courses.

| Met | Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Grade Source |
|-----|-------------------------------------------------|-------------------------------------------------|
| No  | A. Major GPR 30+hrs                             | A minimum of 30 advanced hours for the major.  |

Total Credits and GPA 0.000 0.00

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF POLITICAL SCIENCE
BA IN POLITICAL SCIENCE
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: 
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):
   POLS

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.A. IN POLITICAL SCIENCE

5. Brief description of change: The revised degree plan will provide greater structure to undergraduate degrees in political science. It requires students to take an introductory course in political science theory along with an expanded set of introductory (200 level) courses in various subfields of political science. This revision also includes minor changes to harmonize catalog copy among the department's degree programs.

6. Rationale for change: Departmental assessments of undergraduate programs and a recent external review indicated the need for students to improve their comprehension of basic, theoretical knowledge in political science before advancing to higher level coursework. This degree program revision expands the set of introductory courses required of POLS majors in an effort to promote command of core theoretical knowledge and expand the scope of students' introductory exposure to political science as an academic discipline.

7. Use the checkboxes below to make sure that all information is included.

   a. Proposed curriculum attached.  ☑ Yes  ☐ No

   b. Current catalog curriculum with handwritten edits attached.  ☑ Yes  ☐ No

   c. Current Howdy degree evaluation with handwritten edits attached.  ☑ Yes  ☐ No

     Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐ Yes  ☑ No

   b. If yes, degree program hours will change from: ________ to: ________

   c. If yes, is the Texas Higher Education Coordinating Board form attached?  ☐ Yes  ☑ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  ☑ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

William Clark  9-2-15  Dean of College  10-20-15
Department Head or Program Chair (Type Name & Sign)  Date

Nancy J. Burke  10-19-15  Chair, College Review Committee  Date
Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 84/14

RECEIVED OCT 23 2015 CURRICULAR SERVICES
Proposed Curriculum
Political Science- Bachelor of Arts

Program Requirements

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>POLS 200</td>
<td>Foundations of Political Science</td>
<td>3</td>
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<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
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<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
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<tr>
<td>POLS 209</td>
<td>Introduction to Political Science Research</td>
<td>3</td>
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<tr>
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<td>Select three of the following:</td>
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<tr>
<td>POLS 203</td>
<td>Introduction to Political Theory</td>
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<tr>
<td>POLS 229</td>
<td>Introduction to Comparative Politics</td>
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<td>POLS 231</td>
<td>Introduction to World Politics</td>
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<tr>
<td>POLS 233</td>
<td>Politics and Policy in the United States</td>
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<td>ENGL 104</td>
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<td>ENGL 203</td>
<td>Writing about Literature</td>
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<td>ENGL 210</td>
<td>Technical and Business Writing</td>
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<td>COMM 203</td>
<td>Public Speaking</td>
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<td>COMM 205</td>
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<td>COMM 243</td>
<td>Argumentation and Debate</td>
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<td>Creative arts</td>
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<tr>
<td>Literature, philosophy, and culture or creative arts</td>
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<tr>
<td>Life and physical sciences</td>
<td>9</td>
</tr>
<tr>
<td>Social and behavioral sciences</td>
<td>6</td>
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<td>American history</td>
<td>6</td>
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<tr>
<td>International and cultural diversity4</td>
<td>22</td>
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<tr>
<td>Free electives</td>
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<tr>
<td>Total Semester Credit Hours</td>
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</tbody>
</table>

*Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.

*At least 8 hours must be in MATH except MATH 102, MATH 150, MATH 197, MATH 365, and MATH 366. Three hours may be PHIL 240.

*POLS 100-POLS 499 cannot be used to fulfill this requirement.

*Course may be used to satisfy any other requirement.

No more than 36 credits in political science may be applied to the degree.

A grade of C or better is required for a course to be counted in the major field.
Other courses may qualify for the college and university requirements. Student should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.
**Political Science - BA**

The Department of Political Science offers a Bachelor of Arts in Political Science. The B.A. degree program offers a strong liberal arts curriculum aimed at enhancing students' understanding of politics along with essential training in social science research methods, developing habits of critical thinking, and enhancing students' written, verbal, and visual communications skills.

### Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
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<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
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</table>
| POLS 209    | Introduction to Political Science Research 1  
(1)  | 3  |

- **Political Science electives**
- **College and University Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:
- ENGL 203 Writing about Literature
- ENGL 210 Technical and Business Writing
- COMM 203 Public Speaking
- COMM 205 Communication for Technical Professions
- COMM 245 Argumentation and Debate

- Literature in English 6
- Foreign language 14
- Mathematics 2 6
- Language, philosophy and culture 3
- Creative arts 3
- Literature, philosophy, and culture or creative arts 3
- Life and physical sciences 9
- Social and behavioral sciences 5 6
- American history 6

- International and Cultural Diversity 4

Free electives 22

**Total Semester Credit Hours** 120

---

1. Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.
2. At least 3 hours must be in MATH except MATH 102, MATH 150, MATH 167, MATH 365, and MATH 366. Three hours may be PHIL 240.
3. Course must deal with fundamental principles and include a critical evaluation and analysis of data and processes.
4. POLS 100-POLS 499 cannot be used to fulfill this requirement.
5. Course may be used to satisfy any other requirement.
6. No more than credits in political science may be applied to the degree.
7. A grade of C or better is required for a course to be counted in the major field.

Other courses may qualify for the college and university requirements. Student should consult the approved list of courses in the Undergraduate...
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 12 hours of 481, 491, 492, 495 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 341, 165 may be used in this degree program.

Limitation Only 14 hours of KINE 199; ARNS 100-499; MISC 100-499; NVSC 100-499; SOHS 100-499 may be used in this degree program to include hours counted toward Residency.

Limitation The following courses may not be used to satisfy requirements in this program: CAER 301-303; DEVS 301-303.

Program: BA POLS
Campus: College Station
College: Liberal Arts
Degree: Bachelor of Arts
Level: Undergraduate
Major: Political Science

<table>
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<tr>
<th>Met</th>
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This is NOT an official evaluation.

Area Major Coursework (39.000 credits) - Not Mat

Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source

Area Communication (12.000 credits) - Not Mat

unofficial evaluation

Total Credits and GPA 0.000 .00
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<td>Must have a grade of 'C' or better.</td>
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<td>No</td>
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<td>B.</td>
<td>Communication</td>
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<td>Select from ENGL 203, 210; COMM 203, 285, 243.</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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Total Credits and GPA 0.000 .00

unofficial evaluation

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Total Credits and GPA 0.000 .00

unofficial evaluation

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</table>
1. 8 hours. Take GERM 101 and 102.
2. 3 hours. Take GERM 201 or 221.
3. 3 hours. Select from GERM 202 or 222.

No JOR E. Greek 14 hrs

1. 8 hours. Take CLAS 101 and 102.
2. 3 hours. Take CLAS 211.
3. 3 hours. Select from CLAS 311 or 312.

No JOR F. Italian 14 hrs

1. 8 hours. Take ITAL 101 and 102.
2. 6 hours. Take ITAL 201 and 202.

No JOR G. Japanese 14 hrs

1. 8 hours. Take JAPN 101 and 102.
2. 6 hours. Take JAPN 201 and 202.

No JOR H. Latin 14 hrs

1. 8 hours. Take CLAS 131 and 132.
2. 6 hours. Take CLAS 231 and 232.

No JOR I. Portuguese 14 hrs

1. 8 hours. Take PORT 101 and 102.
2. 6 hours. Take PORT 201 and 202.

No JOR J. Russian 14 hrs

1. 8 hours. Take RUSS 101 and 102.
2. 6 hours. Select from RUSS 201, 202, 221, 222.

No JOR K. Spanish 14 hrs

1. 4 hours. Take SPAN 101.
2. 4 hours. Select from SPAN 102 or 140.
3. 3 hours. Select from SPAN 201 or 221.
4. 3 hours. Select from SPAN 202, 203 or 222.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Creative Arts/Lang, Phil, Cult (9.000 credits) - Not Met

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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Science (6.000 credits) - Not Met

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unofficial evaluation

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<td>Select any 100-499 course not used elsewhere, (except POLS 100-499).</td>
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<td>A. Writing Requirement</td>
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<td>[UWRT] may be used to satisfy this requirement. Two courses required. Only sections of POLS 209, 304, 307, 309, 312, 314, 323-334, 326, 330, 350, 358, 367, 413, 433-454, 435-440, 442, 454, 456, 481; UGST 491 with the Writing attribute</td>
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<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>Residence - Major 12hrs</td>
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<td>B. Residence - 300-499 24hrs</td>
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<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<td>Major GPR 2.00 hrs</td>
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<td>Included OLS 100-499</td>
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unofficial evaluation

Back to Display Options

4
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF POLITICAL SCIENCE
BA IN POLITICAL SCIENCE AND MASTER IN PUBLIC SERVICE ADMINISTRATION - 5-YEAR DEGREE
Texas A&M University
Request for a Change in Curriculum
Undergraduate ▪ Graduate ▪ Professional

1. Program request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DPhil, JD, MD, etc.)

2. Request change for:  ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  ☑ POLS

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   FIVE YEAR JOINT B.A.-M.P.S.A. IN POLITICAL SCIENCE AND PUBLIC SERVICE ADMINISTRATION

5. Brief description of change: The revised degree plan will provide greater structure to undergraduate degrees in political science. It requires students to take an introductory course in political science theory along with an expanded set of introductory (200 level) courses in various subfields of political science. This revision also includes minor changes to harmonize catalog copy among the department's degree programs. The changes affect only the undergraduate component of the joint degree plan.

6. Rationale for change: Departmental assessments of undergraduate programs and a recent external review indicated the need for students to improve their comprehension of basic theoretical knowledge in political science before advancing to higher level coursework. This degree program revision expands the set of introductory courses required of POLS majors in an effort to promote command of core theoretical knowledge and enhances the scope of students' introductory exposure to political science as an academic discipline.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  ☑ Yes  ☐ No
    b. Current catalog curriculum with handwritten edits attached.  ☑ Yes  ☐ No
    c. Current Howdy degree evaluation with handwritten edits attached.  ☑ Yes  ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐ Yes  ☐ No
    b. If yes, degree program hours will change from: _________ to: _________
    c. If yes, is the Texas Higher Education Coordinating Board form attached?  http://www.thecb.state.tx.us/index.cfm?objectid=A0P9F7FA-9A92-4F11-2756AD3BBFF01D60  ☑ Yes  ☐ No

9. If proposed changes affect other unit(s), are letters of support attached?  ☑ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

William Clark  9-21-15
Department Head or Program Chair (Type Name & Sign)  Date

Sandra Williams  10-20-15
Dean of College  Date

Nancy Street  10-19-15
Chair College Review Committee  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu.
Curricular Services - 04/14
Proposed Curriculum
Political Science- Bachelor of Arts/Master of Public Administration

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>POLS 200</td>
<td>Foundations of Political Science</td>
<td>3</td>
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<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
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<tr>
<td>POLS 209</td>
<td>Introduction to Political Science Research</td>
<td>3</td>
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<tr>
<td>Select three of the following:</td>
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<tr>
<td>POLS 203</td>
<td>Introduction to Political Theory</td>
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<tr>
<td>POLS 229</td>
<td>Introduction to Comparative Politics</td>
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<tr>
<td>POLS 231</td>
<td>Introduction to World Politics</td>
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<tr>
<td>POLS 233</td>
<td>Politics and Policy in the United States</td>
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<tr>
<td>Political Science electives</td>
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<tr>
<td>ENGL 104+</td>
<td>Composition and Rhetoric</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 203</td>
<td>Writing about Literature</td>
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</tr>
<tr>
<td>ENGL 210</td>
<td>Technical and Business Writing</td>
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<tr>
<td>COMM 203</td>
<td>Public Speaking</td>
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<td>COMM 205</td>
<td>Communication for Technical Professions</td>
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<td>COMM 243</td>
<td>Argumentation and Debate</td>
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<td>Literature in English</td>
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<tr>
<td>Foreign language</td>
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<td>Language, philosophy and culture</td>
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<td>Literature, philosophy, and culture or creative arts</td>
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<td>Life and physical sciences</td>
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<td>Social and behavioral sciences§</td>
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<td>American history</td>
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<td>International and cultural diversity§</td>
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<td>Free electives§</td>
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<td>Total Semester Credit Hours</td>
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§Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.

§At least 3 hours must be in MATH except MATH 102, MATH 150, MATH 167, MATH 365, and MATH 366. Three hours may be PHIL 240.

§POLS 100-POLS 499 cannot be used to fulfill this requirement.

§Course may be used to satisfy any other requirement.

No more than 36 credits in political science may be applied to the degree.

A grade of C or better is required for a course to be counted in the major field.
Other courses may qualify for the college and university requirements. Student should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.

See the MPSA program in the Graduate Catalog for MPSA requirements.
Political Science - 5-Year Bachelor of Arts/Master of Public Service Administration

Students admitted into this program will be enrolled in Bush School graduate courses with an undergraduate classification for the fall of their fourth year and will be re-classified as degree seeking master's degree students upon completing 120 credit hours, typically in the following semester. These credit hours must include all specific course prerequisites for a baccalaureate degree in Political Science, as well as the courses required by the College of Liberal Arts and by Texas A&M University for an undergraduate degree. Students will be required to complete the same two-year, 48 hour curriculum as other students admitted to the Bush School's MPSA program.

Program Requirements

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>POLS 206</td>
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<td>POLS 207</td>
<td>State and Local Government</td>
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<td>POLS 209</td>
<td>Introduction to Political Science Research</td>
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<td>Political Science electives</td>
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<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
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<td>Select one of the following:</td>
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<tr>
<td>ENGL 203 Writing about Literature</td>
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<td>ENGL 210 Technical and Business Writing</td>
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<td>COMM 206 Communication for Technical Professions</td>
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<td>COMM 244 Argumentation and Debate</td>
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Literature in English: 6
Foreign language: 14
Mathematics: 6
Language, philosophy and culture: 3
Creative arts: 3
Literature, philosophy, and culture or creative arts: 3
Life and physical sciences: 9
Social and behavioral sciences: 6
American history: 6
International and Cultural Diversity: 3

Free electives: 24

Total Semester Credit Hours: 120

1 Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.
2 At least 3 hours must be in MATH except MATH 102, MATH 150, MATH 167, MATH 365, and MATH 366. Three hours may be PHIL 240.
3 Course must deal with fundamental principles and include a critical evaluation and analysis of data and processes.
4 POLS 100-POLS 499 cannot be used to fulfill this requirement.
5 Course may be used to satisfy any other requirement.
6 No more than 33 credits in political science may be applied to the degree.
Detail Requirements

Information for Degree Evaluation
☐ This is NOT an official evaluation.

Program Evaluation

- Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
- Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.
- Limitation Only one course from MATH 141, 166 may be used in this degree program.
- Limitation Only 14 hours of KINE 199; AERS 100-499; MLSC 100-499; NVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward Residency.
- Limitation The following courses may not be used to satisfy requirements in this program: CAEN 401-403; DIVS 401-403.

Program: IM POLS - 3+2 Program
Campus: College Station
College: Liberal Arts
Degree: Bachelor of Arts
Level: Undergraduate
Majors: Political Science
Departments: Political Science
Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: Fall 2015
Request Number: 395
Results as of: Sep 10, 2015
Minors: Concentrations:

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This is NOT an official evaluation.

Area Major Coursework (32.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source

No
A. POLS 206
Must make a grade of "C" or better.

No AND
B. POLS 207
Must make a grade of "C" or better.

No AND
C. POLS 209
Must make a grade of "C" or better.

No AND
D. POLS 209
Must make a grade of "C" or better.


No AND
E. POLS 201
Must make a grade of "C" or better.

Select from POLS 100-499 (exclude POLS 206, 207, 209, 300-309); PSUM 031; PSAM 051, 031. Must make a grade of "C" or better.

unofficial evaluation

Total Credits and GPA 0.000 .00
**Area Communication (12.000 credits) - Not Met**

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<td>Must have a grade of 'C' or better.</td>
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**Total Credits and GPA**  
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**Area Mathematics (6.000 credits) - Not Met**

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**Total Credits and GPA**  
0.000  .00

**unofficial evaluation**

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**Area Life and Physical Sciences (6.000 credits) - Not Met**

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**Total Credits and GPA**  
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**unofficial evaluation**

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**Area Foreign Language (14.000 credits) - Not Met**

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**unofficial evaluation**
## Dean Requirements

1. 5 hours. Take GERM 101 and 102.
2. 3 hours. Select from GERM 201 or 221.
3. 3 hours. Select from any course.

### No OR

- **E. Greek 14hrs**
  1. 8 hours. Take CLAS 101 and 102.
  2. 3 hours. Take CLAS 211.
  3. 3 hours. Select from CLAS 311 or 317.

- **F. Italian 14hrs**
  1. 8 hours. Take ITAL 101 and 102.
  2. 6 hours. Take ITAL 201 and 202.

- **G. Japanese 14hrs**
  1. 8 hours. Take JAPN 101 and 102.
  2. 6 hours. Take JAPN 201 and 202.

- **H. Latin 14hrs**
  1. 8 hours. Take CLAS 121 and 122.
  2. 6 hours. Take CLAS 221 and 222.

- **I. Portuguese 14hrs**
  1. 8 hours. Take PORT 101 and 102.
  2. 6 hours. Take PORT 201 and 202.

- **J. Russian 14hrs**
  1. 8 hours. Take RUSN 101 and 102.
  2. 6 hours. Select from RUSN 201, 202, 221, 222.

- **K. Spanish 14hrs**
  1. 4 hours. Take SPAN 101.
  2. 4 hours. Select from SPAN 102 or 140.
  3. 3 hours. Select from SPAN 201 or 221.
  4. 3 hours. Select from SPAN 202, 203 or 222.

### Total Credits and GPA

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## Unofficial Evaluation

### Area: Language, Phil. Cult. & Cr. Arts (9.000 credits)
- Not Met

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<td>Lang. Phil. Cul. &amp; Cr. Art 3hrs</td>
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## Unofficial Evaluation

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- Not Met

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<td>Select from any course with the Social Science attribute [KROC] (except POLS 100-499).</td>
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### Total Credits and GPA

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<td>A. History Rqmt 6hrs</td>
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<td>A. General Electives 2500x</td>
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<td>Select from any 100-499 course not used elsewhere including BUSH 632 or 635 or PSSA 630; PSSA 622 or 634; 6 hours PSAA 600-699 (excluding POLS 100-499)</td>
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<th>Work Not Applied - Met</th>
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<td>Description See advisor for acceptable substitutions.</td>
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<tr>
<td>No</td>
<td>A. Writing Requirement</td>
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<td>[UWRT] may be used to satisfy this requirement. Two courses required. Only sections of POLS 206, 304, 307, 309, 312, 314, 323-324, 328, 350, 352, 356, 367, 413, 422-424, 429-430, 442, 454, 456, 458; UGRT 491 with the Writing attribute</td>
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<th>Area</th>
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<td>A. Int'l &amp; Cultural Diversity 6hr</td>
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Select from courses with the International and Cultural Diversity attribute [IDCO] (except sections of BUSN 289 with the UWRT attribute).

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<th>Residence Requirement - Not Met</th>
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<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-499 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>A. Residence - Major 12hrs</td>
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<td>Includes POLS 300-499; PSAA 681, 611, 615, 621, 622, 631, 632, 634, 675, 676.</td>
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<td>AND B. Residence - 300-499 24hrs</td>
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<td>Includes any 300-499 course; PSAA 601, 611, 615, 621, 622, 631, 632, 634, 675, 676.</td>
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<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<td>A. Major GPR 2.0-Hrs</td>
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<td>No</td>
<td>Includes BUSN 601, 611, 615, 634; POLS 100-499.</td>
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unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF POLITICAL SCIENCE
BS IN POLITICAL SCIENCE
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type:  ☐ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  ☐ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  POLS

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  B.S. IN POLITICAL SCIENCE

5. Brief description of change:  The revised degree plan will provide greater structure to undergraduate degrees in political science. It requires students to take an introductory course in political science theory along with an expanded set of introductory (200 level) courses in various subfields of political science. This revision also includes minor changes to harmonize catalog copy among the department's degree programs.

6. Rationale for change:  Departmental assessments of undergraduate programs and a recent external review indicated the need for students to improve their comprehension of basic theoretical knowledge in political science before advancing to higher level coursework. This degree program revision expands the set of introductory courses required of POLS majors in an effort to promote command of core theoretical knowledge and enhances the scope of students' introductory exposure to political science as an academic discipline.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  ☐ Yes  ☐ No
   b. Current catalog curriculum with handwritten edits attached.  ☐ Yes  ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached.  ☐ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   ☐ Yes  ☐ No
   b. If yes, degree program hours will change from:  to:  
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      ☐ Yes  ☐ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F5F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  ☐ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

William Clark  9-21-15
Department Head or Program Chair (Type Name & Sign) Date

Dean of College  10-23-15
Date

Nancy Smith  10-19-15
Chair, College Review Committee Date

Chair, GC or UCC  10-23-15
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 04/14

RECEIVED  OCT 23 2015
CURRICULAR SERVICES
Proposed Curriculum
Political Science- Bachelor of Science

Program Requirements

POLS 200  Foundations of Political Science  3
POLS 206  American National Government  3
POLS 207  State and Local Government  3
POLS 209  Introduction to Political Science Research  3
Select three of the following:  9
POLS 208  Introduction to Political Theory
POLS 229  Introduction to Comparative Politics
POLS 231  Introduction to World Politics
POLS 283  Politics and Policy in the United States
Political Science electives  15
POLS 309  Polimetrics  3
Foreign language  8
Select one of the following:  3-4
POLS 308  Game Theoretic Methods in Political Science
STAT 307  Sample Survey Techniques
ECON 449  Economics of Decision-Making Strategy
ECON 459  Games and Economic Behavior
CSCE 110  Programming I
CSCE 111  Introduction to Computer Science Concepts and Programming
CSCE 206  Structured Programming in C
College and University Requirements
ENGL 104  Composition and Rhetoric  3
Select one of the following:  3
ENGL 203  Writing about Literature
ENGL 210  Technical and Business Writing
COMM 203  Public Speaking
COMM 205  Communication for Technical Professions
COMM 243  Argumentation and Debate
Literature in English  6
Mathematics
Select one of the following options:  9
Option 1:
PHIL 240  Introduction to Logic
MATH 141  Business Mathematics I
MATH 142  Business Mathematics II
Option 2:
PHIL 240  Introduction to Logic
MATH 151  Engineering Mathematics I
MATH 152  Engineering Mathematics II
Option 3:
PHIL 240  Introduction to Logic
MATH 171  Analytic Geometry and Calculus
MATH 172  Calculus
Creative arts  3
Language, philosophy and culture  3
Language, philosophy and culture or creative arts  3
Life and physical sciences  9
Social and behavioral sciences\textsuperscript{2} & 6 \\
American history & 6 \\
International and cultural diversity\textsuperscript{3} & \\
Free electives\textsuperscript{4} & 19 \\
Total Semester Credit Hours & 120 \\

\textsuperscript{1}Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.

\textsuperscript{2}POL 100-POLS 499 cannot fulfill this requirement.

\textsuperscript{3}Course may be used to satisfy any other requirement.

No more than 89 credits in political science may be applied to the degree.

A grade of C or better is required for a course to be counted in the major field.

Other courses may qualify for the college and university requirements. Students should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.
Political Science - BS

The Department of Political Science offers a Bachelor of Science in Political Science. The B.S. program emphasizes building skills in social science research and data analysis while gaining a better understanding of politics, developing habits of critical thinking, and enhancing students' written, verbal, and visual communications skills.

Program Requirements

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<td>POLS 207</td>
<td>State and Local Government</td>
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<td>POLS 209</td>
<td>Introduction to Political Science Research</td>
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<td>POLS 309</td>
<td>Political Science electives</td>
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<td>Composition and Rhetoric</td>
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<td>ENGL 203</td>
<td>Writing about Literature</td>
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<td>ENGL 210</td>
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<td>Public Speaking</td>
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<td>COMM 205</td>
<td>Communication for Technical Professions</td>
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<td>MATH 141</td>
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<tr>
<td>POLS 233</td>
<td>Politics and Policy in the United States</td>
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Free electives 2: 19

Total Semester Credit Hours: 120

- Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.
- POLS 100-POLS 409 cannot fulfill this requirement.
- Course may be used to satisfy any other requirement.

No more than 30 credits in political science may be applied to the degree.

Other courses may qualify for the college and university requirements. Student should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.

- Insert: POLS 200 FOUNDATIONS OF POLITICAL SCIENCE
- Insert: Select three of the following: 9
  - POLS 203 INTRODUCTION TO POLITICAL THEORY
  - POLS 229 INTRODUCTION TO COMPARATIVE POLITICS
  - POLS 231 INTRODUCTION TO WORLD POLITICS
  - POLS 233 POLITICS AND POLICY IN THE UNITED STATES

Creative arts 3: 3
- Language, philosophy and culture: 3
- Language, philosophy and culture or creative arts: 3
- Life and physical sciences: 9
- Social and behavioral sciences 2: 6
- American history: 6
- International and cultural diversity 3: 6
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 156 may be used in this degree program.

Limitation Only 14 hours of KINE 109; AERS 103-499; HLSC 100-499; NVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward residency.

Limitation The following courses may not be used to satisfy requirements in this program: CAEN 001-003; DEV5 001-003.

Program:
BS POLS
Catalog Term:
Fall 2015 - College Station
Campus:
College Station
Evaluation Term:
Fall 2015 - College Station
College:
Liberal Arts
Expected Graduation Date:

Degree:
Bachelor of Science
Request Number:
106
Level:
Undergraduate
Results as of:
Sep 10, 2015
 Majors:
Political Science
Concentrations:

Transfer:

This is NOT an official evaluation.

Area Major Coursework (25,000 credits) - Not Mat

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>POLS 206</td>
<td></td>
<td></td>
<td>120.000</td>
<td>0</td>
</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td>POLS 207</td>
<td></td>
<td></td>
<td>.00</td>
<td>.00</td>
</tr>
<tr>
<td>No AND</td>
<td>C.</td>
<td>POLS 209</td>
<td></td>
<td></td>
<td>2.00</td>
<td>2.00</td>
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<tr>
<td>No AND</td>
<td>D.</td>
<td>POLS Rqtr II 11hrs</td>
<td></td>
<td></td>
<td>365, 366, 367, 391, 413, 414, 415, 416, 418, 421, 422, 423, 430, 447, 448, 456</td>
<td>0.00</td>
</tr>
</tbody>
</table>

unofficial evaluation

Total Credits and GPA: 0.000 .00
### Area Supporting Coursework (6.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Research Skills 3 hrs</td>
<td></td>
<td></td>
<td>Research Skills IIT 3 hrs Select from CSCW 110, 111, 206; ECON 449, 459; POLS 308; STAT 307.</td>
</tr>
<tr>
<td></td>
<td>AND</td>
<td>B.</td>
<td></td>
<td></td>
<td>POLS 309</td>
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</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

### Area Communication (12.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>ENGL 104</td>
<td></td>
<td></td>
<td>Must have a grade of 'C' or better.</td>
</tr>
<tr>
<td></td>
<td>AND</td>
<td>B.</td>
<td></td>
<td></td>
<td>Communication Rqmnt 3hrs Select from ENGL 203, 210; COMM 203, 205, 243.</td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

### Area Mathematics (9.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Mathematics Rqnt 1 6hrs</td>
<td></td>
<td></td>
<td>Mathematics Rqnt 1 6hrs Select from MATH 141 and 142, or MATH 151 and 152, or MATH 171 and 172.</td>
</tr>
<tr>
<td></td>
<td>AND</td>
<td>B.</td>
<td></td>
<td></td>
<td>PHIL 240 3hrs</td>
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</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

### Area Life and Physical Sciences (9.000 credits) - Not Met

<table>
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<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Life/Physical Sciences 9hrs</td>
<td></td>
<td></td>
<td>Life/Physical Sciences 9hrs Select 9 hours from any courses with the Life and Physical Sciences attribute (LPS).</td>
</tr>
</tbody>
</table>

Total Credits and GPA 0.000 .00

unofficial evaluation

### Area Lang, Phil, Cult & Cr Arts (9.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low High Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>A.</td>
<td>Creative Arts 3hrs</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 of 5

9/10/2015 10:25 AM
Select from any course with the Creative Arts [ICRA] attribute.

A. Lang. Phil. & Coll. 3hrs
   Select from any course with the Language, Philosophy, and Culture [KIPC] attribute.

B. Lang. Phil. & Coll. Art 3hrs
   Select from any course with the Language, Philosophy, and Culture [KIPC] attribute or with the Creative Arts [ICRA] attribute.

\[\text{Total Credits and GPA} \quad 0.600 \quad .00\]

\textbf{unofficial evaluation}

\textbf{Area Social and Behavioral Science (6.000 credits) - Not Met}

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline
Met & Condition Rule & Subject Attribute & Low & High & Required & Required & Term Subject Course Title Attribute Credits Grade Source \\
\hline
No & A. & Social Science 3hrs & & & & & \\
No & B. & Social Science 3hrs & (except POLS 100-499). & & & & \\
\hline
\end{tabular}

\[\text{Total Credits and GPA} \quad 0.000 \quad .00\]

\textbf{unofficial evaluation}

\textbf{Area Citizenship (6.000 credits) - Not Met}

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline
No & A. & History 3hrs & & & & & \\
\hline
\end{tabular}

\[\text{Total Credits and GPA} \quad 0.000 \quad .00\]

\textbf{unofficial evaluation}

\textbf{Area Foreign Language (6.000 credits) - Not Met}

\begin{itemize}
\item Select from the following:
  \begin{enumerate}
  \item ARAB 101 and 102.
  \item CHIN 101 and 102.
  \item FREN 101 and 102.
  \item GERG 101 and 102.
  \item ITAL 101 and 102.
  \item JAPN 101 and 102.
  \item KORL 101 and 102.
  \item SPAN 101 and 102.
  \item TURK 101 and 102.
  \item \(100-499\) course not used elsewhere, (except POLS 100-499).
  \end{enumerate}
\end{itemize}

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline
No & A. & Foreign Language 8hrs & & & & & \\
\hline
\end{tabular}

\[\text{Total Credits and GPA} \quad 0.003 \quad .00\]

\textbf{unofficial evaluation}

\textbf{Area General Electives (22.000 credits) - Not Met}

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline
No & A. & General Electives 22hrs & & & & & \\
\hline
\end{tabular}

\[\text{Total Credits and GPA} \quad 0.000 \quad .00\]
unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Work Not Applied - Met</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>See advisor for acceptable substitutions.</td>
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</table>

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Credits</th>
<th>Required Term Subject Course Title Attribute Credits Grade Source Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
<td></td>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>University Writing Requirement - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits</td>
</tr>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
</tr>
<tr>
<td></td>
<td>[UWRT] may be used to satisfy this requirement. Two courses required. Only sections of POLS 209, 304, 307, 309, 312, 314, 323-324, 328, 350, 352, 358, 367, 413, 423-424, 439-440, 442, 454, 456, 481; LGST 491 with the Writing attribute.</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Int'l &amp; Cult Diversity - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits</td>
</tr>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 9hr</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UCD] (except sections of BUSN 289 with the UWRT attribute).</td>
</tr>
</tbody>
</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Foreign Language - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits</td>
</tr>
<tr>
<td>No</td>
<td>A. Foreign Language 8per Semester</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following: 1. Two years of the same foreign language in High School. 2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
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</table>

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
</tr>
<tr>
<td>----</td>
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unofficial evaluation

Area: GPA-Major - Not Met
Description: A GPA of 2.00 must be maintained in all major field courses.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Major GPA 2.00 24 hrs</td>
<td>Includes 400-599, 600-899.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF POLITICAL SCIENCE
BS IN POLITICAL SCIENCE AND MASTER IN PUBLIC SERVICE ADMINISTRATION - 5-YEAR DEGREE
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):  POLS

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  FIVE YEAR JOINT B.S.-M.P.S.A. IN POLITICAL SCIENCE AND PUBLIC SERVICE ADMINISTRATION

5. Brief description of change:  The revised degree plan will provide greater structure to undergraduate degrees in political science. It requires students to take an introductory course in political science theory along with an expanded set of introductory (200 level) courses in various subfields of political science. This revision also includes minor changes to harmonize catalog copy among the department's degree programs. The changes affect only the undergraduate component of the joint degree plan.

6. Rationale for change:  Departmental assessments of undergraduate programs and a recent external review indicated the need for students to improve their comprehension of basic theoretical knowledge in political science before advancing to higher level coursework. This degree program revision expands the set of introductory courses required of POLS majors in an effort to promote command of core theoretical knowledge and enhances the scope of students' introductory exposure to political science as an academic discipline.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  ☑ Yes  ☐ No
   b. Current catalog curriculum with handwritten edits attached.  ☑ Yes  ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached.  ☑ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐ Yes  ☐ No
   b. If yes, degree program hours will change from:  ________ to:  ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?  ☐ Yes  ☐ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  ☑ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

William Clark  9-21-15  Dean of College  10-20-15
Department Head or Program Chair (Type Name & Sign)  Date  Date

Nancy Jones  10-19-15  Chair, College Review Committee  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14

RECEIVED
Curricular Services  OCT 23 2015
Proposed Curriculum
Political Science- Bachelor of Science/Master of Public Administration

Program Requirements

POLS 200 Foundations of Political Science 3
POLS 206 American National Government 3
POLS 207 State and Local Government 3
POLS 209 Introduction to Political Science Research 3
Select three of the following: 9
POLS 208 Introduction to Political Theory
POLS 229 Introduction to Comparative Politics
POLS 231 Introduction to World Politics
POLS 233 Politics and Policy in the United States
Political Science electives 15
POLS 309 Polimetrics 3
Foreign language 8
Select one of the following: 3-4
POLS 308 Game Theoretic Methods in Political Science
STAT 307 Sample Survey Techniques
ECON 449 Economics of Decision-Making Strategy
ECON 459 Games and Economic Behavior
CSCE 110 Programming I
CSCE 111 Introduction to Computer Science Concepts and Programming
CSCE 206 Structured Programming in C

College and University Requirements
ENGL 104 Composition and Rhetoric 3
Select one of the following: 3
ENGL 203 Writing about Literature
ENGL 210 Technical and Business Writing
COMM 203 Public Speaking
COMM 205 Communication for Technical Professions
COMM 243 Argumentation and Debate
Literature in English 6

Mathematics
Select one of the following options: 9
Option 1:
PHIL 240 Introduction to Logic
MATH 141 Business Mathematics I
MATH 142 Business Mathematics II
Option 2:
PHIL 240 Introduction to Logic
MATH 151 Engineering Mathematics I
MATH 152 Engineering Mathematics II
Option 3:
PHIL 240 Introduction to Logic
MATH 171 Analytic Geometry and Calculus
MATH 172 Calculus
Creative arts 3
Language, philosophy and culture 3
Language, philosophy and culture or creative arts 3
Life and physical sciences 9
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Social and behavioral sciences</td>
<td>6</td>
</tr>
<tr>
<td>American history</td>
<td>6</td>
</tr>
<tr>
<td>International and cultural diversity</td>
<td></td>
</tr>
<tr>
<td>Free electives</td>
<td>19</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>120</td>
</tr>
</tbody>
</table>

1Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.

*POLS 100-POLS 499 cannot fulfill this requirement.

4Course may be used to satisfy any other requirement.

No more than 39 credits in political science may be applied to the degree.

A grade of C or better is required for a course to be counted in the major field.

Other courses may qualify for the college and university requirements. Student should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.

See the MPSA program in the Graduate Catalog for MPSA requirements.
# Political Science - 5-Year Bachelor of Science/Master of Public Service Administration

Students admitted into this program will be enrolled in Bush School graduate courses with an undergraduate classification for the fall of their fourth year and will be re-classified as degree seeking master's degree students upon completing 120 credit hours, typically in the following semester. These credit hours must include all specific course prerequisites for a baccalaureate degree in Political Science, as well as the courses required by the College of Liberal Arts and by Texas A&M University for an undergraduate degree. Students will be required to complete the same two-year, 48 hour curriculum as other students admitted to the Bush School’s MPSA program.

## Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 209</td>
<td>Introduction to Political Science Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Political Science electives</td>
<td></td>
</tr>
<tr>
<td>POLS 309</td>
<td>Poliometrics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign language</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POLS 310 Game Theoretic Methods in Political Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>STAT 307 Sample Survey Techniques</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 449 Economics of Decision-Making Strategy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 459 Games and Economic Behavior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSCE 110 Programming I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSCE 111 Introduction to Computer Science Concepts and Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CSCE 206 Structured Programming in C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College and University Requirements</td>
<td></td>
</tr>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 203 Writing about Literature</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 216 Technical and Business Writing</td>
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</tr>
<tr>
<td></td>
<td>COMM 203 Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMM 205 Communication for Technical Professions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM 243 Argumentation and Debate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Literature in English</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following options:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Option 1:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 240 Introduction to Logic</td>
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<tr>
<td></td>
<td>MATH 141 Business Mathematics I</td>
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<tr>
<td></td>
<td>MATH 142 Business Mathematics II</td>
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<td>Option 2:</td>
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<tr>
<td></td>
<td>MATH 151 Engineering Mathematics I</td>
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</tr>
<tr>
<td></td>
<td>MATH 152 Engineering Mathematics II</td>
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<td></td>
<td>Option 3:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 171 Analytic Geometry and Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 172 Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Creative arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Language, philosophy and culture 3
Language, philosophy and culture or creative arts 3
Life and physical sciences 9
Social and behavioral sciences 2 6
American history 6
International and cultural diversity 19

**Total Semester Credit Hours** 120

1. Students must complete this course before taking more than six hours of 300- or 400-level courses in Political Science.
2. POLS 100-POLS 499 cannot fulfill this requirement.
3. Course may be used to satisfy any other requirement.

No more than 15 credits in political science may be applied to the degree.

Other courses may qualify for the college and university requirements. Students should consult the approved list of courses in the Undergraduate Student Services Office in the College of Liberal Arts. No course can be counted in more than one category.

See the MPSA program in the Graduate Catalog for MPSA requirements.

**Mathematics**: Select three of the following:
- POLS 205 Introduction to Political Science
- POLS 209 Introduction to Political Theory
- POLS 231 Introduction to Comparative Politics
- POLS 233 Introduction to World Politics
- POLS 234 Politics and Policy in the United States

**Creative Arts**: Select three of the following:
- PHIL 240 Introduction to Logic
- PHIL 242 Introduction to Logic
- PHIL 244 Introduction to Logic

---

*Note: The text contains some hand-drawn annotations and corrections.*
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 483 and/or 491 courses may be used for an undergraduate degree.

Limitation Only one course from MATH 141, 146 may be used in this degree program.

Limitation Only 14 hours of KINE 159; ARKS 100-499; HLSC 100-499; RVSC 100-499; SOMS 100-499 may be used in this degree program to include hours counted toward Residency.

Limitation The following courses may not be used to satisfy requirements in this program: CAEN 001-003; GEOL 001-003; ENGL 103.

<table>
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<th>Program</th>
<th>Catalog Term</th>
<th>Evaluation Term</th>
<th>Expected Graduation Date</th>
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<td>Sep 10, 2015</td>
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This is NOT an official evaluation.

Area Major coursework (36 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Credits Required Courses

No A. POLS 206
Must make a grade of 'C' or better.

No AND B. POLS 207
Must make a grade of 'C' or better.

No AND C. POLS 209
Must make a grade of 'C' or better.

No AND D. POLS 100-499 (exclude POLS 206, 207, 209); BUSI 631; PSAA 601, 611, 621.
Must make a grade of 'C' or better.

No AND E. POLS 200
Must make a grade of 'C' or better.

unofficial evaluation

Total Credits and GPA 0.000 0.00
### Area Supporting Coursework (6,000 credits) - Not Met

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<th>Required Credits</th>
<th>Required Courses</th>
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<th>Credits</th>
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<tr>
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<td></td>
<td>Select from CSCE 110, 111, 206; ECON 445, 459; POLS 308; STAT 307.</td>
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<td>No</td>
<td>AND</td>
<td>B. POLS 309</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

### Area Communication (12,000 credits) - Not Met

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<td>A. ENGL 104</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. Communication Rqmt 3hrs</td>
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<td>Select from ENGL 203, 210; COMM 203, 205, 243.</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

### Area Mathematics (9,000 credits) - Not Met

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<th>Credits</th>
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<tr>
<td>No</td>
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<td>No</td>
<td>AND</td>
<td>B. PHIL 240 3hrs</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

### Area Life and Physical Sciences (9,000 credits) - Not Met

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<tr>
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<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [LPS].</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

### Area Lang, Phil. Cult. & Cr. Arts (9,000 credits) - Not Met

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unofficial evaluation
Select from any course with the Creative Arts [KICA] attribute.

No AND B. Lang, Phil. & Coll. 3hrs
Select from any course with the Language, Philosophy, and Culture [KIPC] attribute.

No AND C. Lang, Phil. Coll. & Cr. Art 3hrs
Select from any course with the Language, Philosophy, and Culture [KIPC] attribute or with the Creative Arts [KICA] attribute.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Science (6.000 credits) - Not Met

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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Citizenship (6.000 credits) - Not Met

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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Language (8.000 credits) - Not Met

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Total Credits and GPA 0.000 .00

unofficial evaluation

Area General Electives (12.000 credits) - Not Met

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Select from any 100-499 course not used elsewhere (except POLS 100-499); BUS 632 or 635 or PSAA 630; PSAA 622 or 634; 5 hours PSAA 600-999.

Total Credits and GPA 0.000 .00
unofficial evaluation

<table>
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<th>Area:</th>
<th>Work Not Applied - Met</th>
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<td>Description</td>
<td>See advisor for acceptable substitutions.</td>
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Total Credits and GPA 0.000 | 0.00

unofficial evaluation

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<td>[UWRT] may be used to satisfy this requirement. Two courses required. Only sections of POLS 209, 204, 307, 309, 312, 314, 323-324, 328, 330, 352, 358, 307, 413, 423-424, 439-440, 442, 454, 456, 481; IDST 402 with the Writing attribute.</td>
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Total Credits and GPA 0.000 | 0.00

unofficial evaluation

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<th>Area:</th>
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<td>Select from courses with the International and Cultural Diversity attribute [ICDO] (except sections of BUSN 289 with the UWRT attribute).</td>
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Total Credits and GPA 0.000 | 0.00

unofficial evaluation

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<td>Complete one of the following:</td>
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<td>1. Two years of the same foreign language in High School.</td>
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<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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Total Credits and GPA 0.000 | 0.00

unofficial evaluation

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<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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unofficial evaluation

Area: GPA-Major - Not Met
Description: A GPA of 2.00 must be maintained in all major field courses.

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<td>Includes BUSI 601, 611, 615, 634; POLS 100-499.</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PSYCHOLOGY
BA IN PSYCHOLOGY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: □ Undergraduate □ Graduate □ First Professional (e.g., DVM, JD, MD, etc.)
   □ Degree Program □ Minor □ Certificate
   Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   Psychology
   B.A. in Psychology

2. Request change for:

3. Request submitted by (Department or Program Name):

4. Brief description of change:
   Allowing up to 6 hours of PSYC 100-499 in general electives.

6. Rationale for change:
   First, students have to make the difficult choice between engaging in high impact courses like PSYC 485, and engaging in content area coursework. Permitting credits from PSYC in the general electives will alleviate this problem for students. Second, students could have completed their PSYC course requirements when a new course appears that is interesting and important to the student’s post-graduation plans. This change allows the student to take the course and receive credit in their degree evaluation rather than have the course fall into work not applied. Finally, there have been some adjustments to student degree evaluations when they have an extra PSYC course but too few credits in their general electives; this change should alleviate the need for these adjustments.

7. a. Proposed curriculum attached. [Yes] [No]
   b. Current catalog curriculum with handwritten edits attached. [Yes] [No]
   c. Current Howdy degree evaluation with handwritten edits attached. [Yes] [No]

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? [Yes] [No]
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? [Yes] [No]
   http://www.thecb.state.tx.us/index.cfm?objectid=09F9F7EA-9A92-4F11-2756AD3BBFF01D6C

9. If proposed changes affect other unit(s), are letters of support attached? [Yes] [No]

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-Upper Faculty; January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Doug Woods
Department Head or Program Chair (Type Name & Sign) Date: 10/21/15
Dean of College

Chair, College Review Committee Date: ____________________
Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 04/14
Psychology - BA
The Department of Psychology offers a Bachelor of Arts in Psychology. Students interested in studying human behavior, with a humanities-oriented curriculum, would pursue a BA degree. The BA can successfully prepare students interested in graduate and professional programs that stress a humanities background (e.g., counseling, social work, management, law), as well as students interested in employment in business or applied psychology.

Program Requirements
- **PSYC 107** Introduction to Psychology\(^1\) 3
- **PSYC 203** Elementary Statistics for Psychology\(^2\) 4
- **PSYC 204** and Experimental Psychology\(^2\) 4

Select two of the following: 6
- **PSYC 306** Abnormal Psychology
- **PSYC 307** Developmental Psychology
- **PSYC 315** Social Psychology
- **PSYC 319** History and Systems of Psychology
- **PSYC 330** Personality
- **PSYC 352** Organizational Psychology

Select two of the following: 6
- **PSYC 311/NRSC 311** Comparative Psychology
- **PSYC 320/NRSC 320** Sensation-Perception
- **PSYC 333/NRSC 333** Biology of Psychological Disorders
- **PSYC 335/NRSC 335** Physiological Psychology
- **PSYC 340/NRSC 340** Psychology of Learning
- **PSYC 345** Human Cognitive Processes

Select one of the following: 3
- **PSYC 206/AFST 206** Black Psychology
- **PSYC 208/AFST 208** Stereotypes, Prejudice, and Minority Experience
- **PSYC 209/AFST 209** Psychology of Culture and Diversity
- **PSYC 210** Psychological Aspects of Human Sexuality
- **PSYC 300/WGST 300** Psychology of Women
- **PSYC 405/ RELS 405** Psychology of Religion

Psychology electives\(^3\) 9

College and University Requirements
Communication
- **ENGL 104** Composition and Rhetoric 3
- **ENGL 210** Technical and Business Writing 3
Foreign Language 14
Mathematics 6
Select two of the following:
   MATH 131 - MATH 467
   PHIL 240 Introduction to Logic
Literature in English 6
Language, philosophy and culture and Creative arts 12
Social and behavioral science 5 6
Life and physical sciences 9
POLS 206 American National Government 3
POLS 207 State and Local Government 3
HIST 105 History of the United States 3
HIST 106 History of the United States 3
International and cultural diversity 7
Electives 8,9 14

Total Semester Credit Hours 120

1 Enrollment freshman year is strongly recommended.
2 Enrollment sophomore year is strongly recommended.
3 No more than a combined maximum of 6 hours of PSYC 484, PSYC 485, or PSYC 485H are permitted.
4 Exceptions are MATH 150, MATH 167, MATH 365, MATH 366.
5 Courses in psychology may not be used to satisfy this requirement.
6 Other courses in American and Texas history may be used; however, courses solely about Texas history may not comprise more than 3 semester credit hours.
7 Course may be used to satisfy any other requirement.
8 No more than 9 hours of any combination of military science, naval science, aerospace studies and physical activity may be counted. A minor field of study may fulfill this requirement, but a minor is not required.
9 Up to 6 hours in PSYC 100-499 are permitted.

No more than 41 hours in psychology may be applied to the degree.
A grade of C or higher is required if a course is to be counted in the major field.
No course can be counted in more than one category.
Psychology - BA

The Department of Psychology offers a Bachelor of Arts in Psychology. Students interested in studying human behavior, with a humanities-oriented curriculum, would pursue a BA degree. The BA can successfully prepare students interested in graduate and professional programs that stress a humanities background (e.g., counseling, social work, management, law), as well as students interested in employment in business or applied psychology.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>PSYC 107</td>
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<td>PSYC 209</td>
<td>Stereotype, Prejudice, and Minority</td>
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<td>AFST 208</td>
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College and University Requirements

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<th>Credit Hours</th>
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<td>Communication</td>
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<tr>
<td>ENGL 104 Composition and Rhetoric</td>
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<td>ENGL 210 Technical and Business Writing</td>
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<td>Foreign Language</td>
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<td>Mathematics</td>
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<td>Select two of the following:</td>
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Total Semester Credit Hours: 120

1. Enrollment in the freshman year is strongly recommended.
2. Enrollment in the sophomore year is strongly recommended.
3. No more than a combined maximum of 6 hours of PSYC 484, PSYC 485, or PSYC 485H are permitted.
4. Exceptions are MATH 150, MATH 167, MATH 305, MATH 366.
5. Courses in psychology may not be used to satisfy this requirement.
6. Other courses in American and Texas history may be used; however, courses solely about Texas history may not comprise more than 3 semester credit hours.
7. Course may be used to satisfy any other requirement.
8. No more than 9 hours of any combination of military science, naval science, aerospace studies and physical activity may be counted. A minor field of study may fulfill this requirement, but a minor is not required.
9. No more than 35 hours in psychology may be applied to the degree.

A grade of C or higher is required if a course is to be counted in the major field. A student must complete a minimum of 36 hours of 300- and 400-level courses at Texas A&M.

No course can be counted in more than one category.

Up to 16 hours in PSYC 100-499 are permitted.
**Detail Requirements**

**Information for Degree Evaluation**

This is NOT an official evaluation.

**Program Evaluation**

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree, including residency.

Limitation Only one course from MATH 141, 156 may be used in this degree program.

Limitation Only 14 hours of MINE 199; AERS 100-499; MLSC 100-499; MVSC 100-499; SOHS 100-499 may be used in this degree program to include hours counted toward residency.

Limitation No more than 6 hours of PSYC 484 and 485 may be used in this program.

Limitation Only one course from MATH 131, 147, 151, 171 may be used in this degree program.

**Program, Catalog Term, College Station, Evaluation Term, Expected Graduation Date**

<table>
<thead>
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<th>Catalog Term</th>
<th>College Station</th>
<th>Evaluation Term</th>
<th>Expected Graduation Date</th>
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**Degree, Level, Majors, Departments**

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<th>Degree</th>
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<td>Bachelor of Arts</td>
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**Met, Credits, Courses**

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<th>Total Required</th>
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<th>Overall GPA</th>
<th>Other Course Information</th>
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This is NOT an official evaluation.

**Area, Major Coursework (36.000 credits) - Not Met**

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<th>Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
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unofficial evaluation

**Area, Communication (12.000 credits) - Not Met**

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Total Credits and GPA 0.000 .00
### Detail Requirements

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<tr>
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<td>Must have a grade of &quot;C&quot; or better.</td>
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No AND B. Communication Rgmt 3hrs
Take ENGL 203 or 219

No AND C. Literature Requirement 6hrs

**Total Credits and GPA**

0.000 0.00

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### Area Mathematics (5.000 credits) - Not Met

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<th>Attribute</th>
<th>Credits</th>
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**Total Credits and GPA**

0.000 0.00

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### Area Life and Physical Sciences (9.000 credits) - Not Met

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**Total Credits and GPA**

0.000 0.00

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### Area Foreign Language (14.000 credits) - Not Met

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<td></td>
<td>1. 8 hours. Take ARAB 101 and 102.</td>
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<td>1. 8 hours. Take CHIN 101 and 102.</td>
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<td>No</td>
<td>OR(C)</td>
<td>French 14hrs</td>
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<td>3. 3 hours. Select from FREN 202 or 222.</td>
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<td>1. 8 hours. Take GERH 101 and 102.</td>
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<td>1. 8 hours. Take CLAS 101 and 102.</td>
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<td>1. 6 hours. Take ITAL 101 and 102.</td>
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**Total Credits and GPA**

0.000 0.00
### Detail Requirements

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**Total Credits and GPA** 0.00 0.00

#### Unofficial Evaluation

**Area**  Language, Phil, Culture & Cr. Arts (12.000 credits) - Not Met

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<th>Rule</th>
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<td>Lang., Phil., and Culture 6hrs</td>
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<td>Select 3 hrs of any course with the [KPCP] Language, Philosophy, and Culture or [KCRA] Creative Arts attribute.</td>
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**Total Credits and GPA** 0.000 0.00

#### Unofficial Evaluation

**Area**  Social and Behavioral Science (6.000 credits) - Not Met

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<th>Term Subject</th>
<th>Course</th>
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**Total Credits and GPA** 0.000 0.00

#### Unofficial Evaluation

**Area**  Citizenship (12.000 credits) - Not Met

**Description**  Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
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<th>Term Subject</th>
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<td>Take POLS 206 and POLS 207.</td>
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**Total Credits and GPA** 0.000 0.00
unofficial evaluation

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<td>Description</td>
<td>A minimum of 36 hours of 300-499 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>A. Residence - Major 12hrs</td>
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<td>ANG  B. Residence - 300-499 24hrs</td>
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unofficial evaluation

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<th>Area</th>
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<td>Description</td>
<td>A GPA of 2.00 must be maintained in all major field courses.</td>
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<td>No</td>
<td>A. Major QR 33+hrs</td>
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unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PSYCHOLOGY
BS IN PSYCHOLOGY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   ✔Undergraduate  □Graduate  □First Professional (ex. DVM, JD, MD, etc.)

2. Request change for:  
   ✔Degree Program  □Minor  □Certificate

3. Request submitted by (Department or Program Name):  
   Psychology

   Program Designation and Name  
   B.S. in Psychology

4. □(e.g., B.A. in History, Minor in History, Certificate in European Union):  

5. Brief description of change:  
   Allowing up to 6 hours of PSYC 100-499 in general electives.

6. Rationale for change:  
   First, students have to make the difficult choice between engaging in high impact courses like PSYC 485 and engaging in content area courses. Permitting credits from PSYC in the general electives will alleviate this problem for students. Second, students could have completed their PSYC course requirements when a new course appears that is interesting and important to the student’s post-graduation plans. This change allows the student to take the course and receive credit in their degree evaluation rather than have the course fall into work not applied. Finally, there have been some adjustments to student degree evaluations when they have an extra PSYC course but too few credits in their general electives; this change should alleviate the need for these adjustments.

7. Use the checkboxes below to make sure that all information is included.  
   a. Proposed curriculum attached.  
      ✔Yes  □No
   b. Current catalog curriculum with handwritten edits attached.  
      ✔Yes  □No
   c. Current Howdy degree evaluation with handwritten edits attached.  
      ✔Yes  □No
   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   □Yes  ✔No
   b. If yes, degree program hours will change from:  
      to:  
   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
      ✔Yes  □No

   http://www.thecb.state.tx.us/index.cfm?objectid=A09F7FA-9A92-4F11-2756AD3B5FF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  
   □Yes  □No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:  

Doug Woods  
Department Head or Program Chair (Type Name & Sign)  Date  Dean of College

Chair, College Review Committee  Date  Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8261 or sandra.williams@tamu.edu.  
Curricular Services – 04/14
Psychology - BS
The Department of Psychology offers a Bachelor of Science in Psychology. Students interested in studying human behavior, with a science-oriented curriculum, would pursue a BS degree. The BS can successfully prepare students interested in further study in a science-oriented psychology graduate program (such as neuroscience) or medical school, or other health-related graduate and professional programs (e.g., pharmacy, physical therapy), as well as students interested in entry-level positions in business or applied psychology.

Program Requirements

PSYC 107 Introduction to Psychology 3
PSYC 203 Elementary Statistics for Psychology 4
PSYC 204 and Experimental Psychology 2 4

Select two of the following: 6
PSYC 306 Abnormal Psychology
PSYC 307 Developmental Psychology
PSYC 315 Social Psychology
PSYC 319 History and Systems of Psychology
PSYC 330 Personality
PSYC 352 Organizational Psychology

Select two of the following: 6
PSYC 311/NRSC 311 Comparative Psychology
PSYC 320/NRSC 320 Sensation-Perception
PSYC 333/NRSC 333 Biology of Psychological Disorders
PSYC 335/NRSC 335 Physiological Psychology
PSYC 340/NRSC 340 Psychology of Learning
PSYC 345 Human Cognitive Processes

Select one of the following: 3
PSYC 206/AFST 206 Black Psychology
PSYC 208/AFST 208 Stereotypes, Prejudice, and Minority Experience
PSYC 209/AFST 209 Psychology of Culture and Diversity
PSYC 210 Psychological Aspects of Human Sexuality
PSYC 300/WGST 300 Psychology of Women
PSYC 405/ RELS 405 Psychology of Religion

Psychology electives 3 9
College and University Requirements

Communication
ENGL 104 Composition and Rhetoric 3
ENGL 210 Technical and Business Writing 3

Mathematics
Select two of the following: 6
    MATH 131-MATH 467
    PHIL 240 Introduction to Logic

Literature in English 6
Language, philosophy and culture and Creative arts 9
Social and behavioral science 6
Life and physical sciences 21
International and cultural diversity 6
American history 6
POLS 206 American National Government 3
POLS 207 State and Local Government 3
Electives 7,8 19

Total Semester Credit Hours 120

1 Enrollment freshman year is strongly recommended.
2 Enrollment sophomore year is strongly recommended.
3 No more than a combined maximum of 6 hours of PSYC 484, PSYC 485, or PSYC 485H are permitted.
4 Exceptions are MATH 150, MATH 167, MATH 365, MATH 366.
5 Courses in psychology may not be used to satisfy this requirement.
6 Course may be used to satisfy any other requirement.
7 No more than 9 hours of any combination of military science, naval science, aerospace studies and physical activity may be counted. A minor field of study may fulfill this requirement, but a minor is not required.
8 Up to 6 hours in PSYC 100-499 are permitted.

No more than 41 hours in psychology may be applied to the degree.
A grade of C or higher is required if a course is to be counted in the major field.
No course can be counted in more than one category.
Psychology - BS

The Department of Psychology offers a Bachelor of Science in Psychology. Students interested in studying human behavior, with a science-oriented curriculum, would pursue a BS degree. The BS can successfully prepare students interested in further study in a science-oriented psychology graduate program (such as neuroscience) or medical school, or other health-related graduate and professional programs (e.g., pharmacy, physical therapy), as well as students interested in entry-level positions in business or applied psychology.

Program Requirements

**PSYC 107** Introduction to Psychology 1  
**PSYC 203** Elementary Statistics for Psychology & **PSYC 204** and Experimental Psychology 2

Select two of the following:
- **PSYC 306** Abnormal Psychology
- **PSYC 307** Developmental Psychology
- **PSYC 315** Social Psychology
- **PSYC 319** History and Systems of Psychology
- **PSYC 330** Personality
- **PSYC 352** Organizational Psychology

Select two of the following:
- **PSYC 311** Comparative Psychology
- **NRSC 311**
- **PSYC 320** Sensation-Perception
- **NRSC 320**
- **PSYC 333** Biology of Psychological Disorders
- **NRSC 333**
- **PSYC 335** Physiological Psychology
- **NRSC 335**
- **PSYC 340** Psychology of Learning
- **NRSC 340**
- **PSYC 345** Human Cognitive Processes

Select one of the following:
- **PSYC 206** Black Psychology
- **AFST 206**
- **PSYC 208** Stereotypes, Prejudice, and Minority Experience
- **AFST 208**
- **PSYC 209** Psychology of Culture and Diversity
- **AFST 209**
- **PSYC 210** Psychological Aspects of Human Sexuality
- **PSYC 300** Psychology of Women
- **WGST 300**
- **PSYC 405** Psychology of Religion
- **RELS 405**

Psychology electives 3

Total Semester Credit Hours 120

1. Enrollment freshman year is strongly recommended.
2. Enrollment sophomore year is strongly recommended.
3. No more than 6 hours of PSYC 484 or PSYC 485H are permitted.
4. Courses in psychology may not be used to satisfy this requirement.
6. Course may be used to satisfy any other requirement.

No more than 36 hours in psychology may be applied to the degree.

A grade of C or higher is required if a course is to be counted in the major field.

No course can be counted in more than one category.

Math 131-Math 467 4
PHIL 240 Introduction to Logic

Total Semester Credit Hours 120

1. Enrollment freshman year is strongly recommended.
2. Enrollment sophomore year is strongly recommended.
3. No more than a combined maximum of 6 hours of PSYC 484, PSYC 485, or PSYC 485H are permitted.
4. Exceptions are MATH 150, MATH 167, MATH 365, MATH 366.
5. Courses in psychology may not be used to satisfy this requirement.
6. Course may be used to satisfy any other requirement.
7. No more than 9 hours of any combination of military science, naval science, aerospace studies and physical activity may be counted.
   A minor field of study may fulfill this requirement, but a minor is not required.

No more than 36 hours in psychology may be applied to the degree.

A grade of C or higher is required if a course is to be counted in the major field.

No course can be counted in more than one category.
# Detail Requirements

## Information for Degree Evaluation

This is NOT an official evaluation.

## Program Evaluation

- **Limitation Correspondence:** No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
- **Limitation Combination:** Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree, including residency.
- **Limitation Only One Course:** From MATH 141, 146 may be used in this degree program.
- **Limitation Only 14 Hours:** of KINE 190, AERS 100-499, MSEC 100-499, NESC 100-499 may be used in this degree program to include hours counted toward residency.
- **Limitation No More Than 6 Hours:** of PSYC 485 and 486 may be used in this program.

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<td>Evaluation Term</td>
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<td>Expected Graduation Date</td>
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### Program GPA:

- **Yes**

### Overall GPA:

- **No**

### Other Course Information

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This is NOT an official evaluation.

### Areas

#### Major Coursework (36.000 credits) - Not Met

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<td>No</td>
<td>A. PSYC 107 Must make a grade of &quot;C&quot; or better.</td>
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<td>No AND</td>
<td>B. PSYC 203 Must make a grade of &quot;C&quot; or better.</td>
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<td>No AND</td>
<td>C. PSYC 204 Must make a grade of &quot;C&quot; or better.</td>
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<td>No AND</td>
<td>E. PSYC Rqr II 6hrs Select from PSYC 311, 320, 330, 335, 340, 345. Must make a grade of &quot;C&quot; or better.</td>
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<td>No AND</td>
<td>F. PSYC Rqr III 3hrs Select from PSYC 205, 208-210, 300, 405. Must make a grade of &quot;C&quot; or better.</td>
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<td>No AND</td>
<td>G. PSYC Elect 9hrs Select from PSYC 100-499. Must make a grade of &quot;C&quot; or better.</td>
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Tota Credits and GPA 0.000 .00

#### Area Communication (12.000 credits) - Not Met

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unofficial evaluation
unofficial evaluation

### Area Mathematics (6.00 credits) - Not Met

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### Area Life and Physical Sciences (21.00 credits) - Not Met

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<td>Select any course with the Life and Physical Sciences [LPS] attribute.</td>
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### Area Lang, Phil, Culture & Cr. Arts (9.00 credits) - Not Met

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<td>Creative Arts</td>
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unofficial evaluation

### Area Social and Behavioral Science (6.00 credits) - Not Met
### Official Requirements

**Detail Requirements**

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<th>High Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
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<tr>
<td>B.</td>
<td>Social Science 3hrs</td>
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**Total Credits and GPA** 0.000 0.00

### Unofficial Evaluation

**Area:** Citizenship (12.000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level NOTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<th>High Credits</th>
<th>Required Courses</th>
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<th>Source</th>
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<tr>
<td>A.</td>
<td>American History 6hrs</td>
<td>Select from any course with the [HIS] attribute.</td>
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<td>B.</td>
<td>Political Science 6hrs</td>
<td>Take POLS 205 and POLS 207.</td>
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**Total Credits and GPA** 0.000 0.00

### Unofficial Evaluation

**Area:** General Electives (19.000 credits) - Not Met

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<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
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<tr>
<td>A.</td>
<td>General Electives 19hrs</td>
<td>Select any 200-499 course not used elsewhere, except PSYC 100-499.</td>
<td><strong>Up to 6 hours of PSYC 100-499 are permitted.</strong></td>
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**Total Credits and GPA** 0.000 0.00

### Unofficial Evaluation

**Area:** Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

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**Total Credits and GPA** 0.000 0.00

### Unofficial Evaluation

**Area:** University Writing Requirement - Not Met

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<tr>
<td>A.</td>
<td>Writing Requirement</td>
<td>Two courses required. Only sections of PSYC 203, 204, 491; or LGST 491 with the Writing attribute (UWR) may be used to satisfy this requirement.</td>
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**Total Credits and GPA** 0.000 0.00

### Unofficial Evaluation

**Area:** Int'l & Cult Diversity - Not Met

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<th>High Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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<tr>
<td>A.</td>
<td>Int'l &amp; Cultural Diversity 6hrs</td>
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**Total Credits and GPA** 0.000 0.00
unofficial evaluation

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</tr>
<tr>
<td>No</td>
<td>A. Foreign Language ReqMt</td>
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<td></td>
<td>Complete one of the following:</td>
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<tr>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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unofficial evaluation

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<th>Area</th>
<th>Residence Requirement - Not Met</th>
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<td>Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
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<td>No</td>
<td>AID B. Residence - 300-400 24hrs</td>
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unofficial evaluation

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<tr>
<th>Area</th>
<th>GPA Major - Not Met</th>
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<tr>
<td>No</td>
<td>A. Major GPR 2.00</td>
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<tr>
<td></td>
<td>Includes PSYC 120, PSYC 250, PSYC 304, PSYC 310, 331, 332, 333, 335, 346, 350, WGST 300.</td>
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</table>

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g. DVM, JD, MD, etc.)

2. Request change for:
☐ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):
Department of Mathematics

Program Designation and Name
(e.g. B.A. in History, Minor in History, Certificate in European Union):
B. S. in Applied Mathematical Sciences - Math Emphasis

5. Brief description of change:
*To change MATH electives Rule D to, "Select from MATH 325, 403-499."

6. Rationale for change:
*To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

7. a. Proposed curriculum attached. ☑ Yes  ☐ No

b. Current catalog curriculum with handwritten edits attached. ☑ Yes  ☐ No

c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes  ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes  ☑ No

b. If yes, degree program hours will change from: __________ to: __________

c. If yes, is the Texas Higher Education Coordinating Board form attached?
http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  ☐ Yes  ☐ No

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes  ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Dr. Paulo Lima-Filho  10/15/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee  10-15-15

Dean of College Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra@tamu.edu

Curricular Services – 04/14

RECEIVED CURRICULAR SERVICES OCT 20 2015
Detail Requirements

Information for Degree Evaluation

⚠️ This is NOT an official evaluation.

**Program Evaluation**

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

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<th>Program :</th>
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<td>BS APMS</td>
<td>Fall 2015 - College Station</td>
</tr>
<tr>
<td>Campus :</td>
<td>Evaluation Term :</td>
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<td>College :</td>
<td>Fall 2015 - College Station</td>
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<td>Degree :</td>
<td>Expected Graduation Date :</td>
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<td>Level :</td>
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**Met Credits Courses**

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<td>Program GPA :</td>
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<td>Overall GPA :</td>
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This is NOT an official evaluation.

Area : Major Coursework (28.000 credits) - Not Met

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<td>No</td>
<td>A.</td>
<td>Mathematics Rqmt I 4hrs</td>
<td>Take MATH 171. Must make a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B. Mathematics Rqmt II 4hrs</td>
<td>Take MATH 172. Must make a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>C. Mathematics Rqmt III 4hrs</td>
<td>Take MATH 221. Must make a grade of 'C' or better.</td>
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<td>No</td>
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<td>D. MATH 220</td>
<td>Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND</td>
<td>E. MATH 313</td>
<td>Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND</td>
<td>F. MATH 409</td>
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<td>AND</td>
<td>G. MATH 417 or 437</td>
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<td>No</td>
<td>AND</td>
<td>H. MATH 308</td>
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unofficial evaluation

Area: Supporting Coursework (38.000 credits) - Not Met

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<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<td>No</td>
<td>A.</td>
<td>Analysis/Adv. Calc II 3hrs</td>
<td>Select from MATH 410, 446.</td>
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<td>B.</td>
<td>Algebra Rqmt 3hrs</td>
<td>Select from MATH 415, 433.</td>
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<tr>
<td>No AND</td>
<td>C.</td>
<td>Mathematics Elect I 3hrs</td>
<td>Select from MATH 412, 414, 442, 470, 471.</td>
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<td>No AND</td>
<td>D.</td>
<td>Mathematics Elect II 9hrs</td>
<td>Select from MATH 325, 407-489.</td>
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<td>No AND</td>
<td>E.</td>
<td>MATH/STAT/ENGR Rqmt 6hrs</td>
<td>Select from CSCE 210-452, 461-481; ISEN 420, 421; math 325, 407-489; STAT 407-415.</td>
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<td>No AND</td>
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<td>STAT 211</td>
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<td>STAT 212</td>
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<td>CSCE Rqmt 8hrs</td>
<td>Select from CSCE 110-111, 121, 206.</td>
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unofficial evaluation

Area: Communication (6.000 credits) - Not Met

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<td>No AND</td>
<td>B.</td>
<td>Communication Rqmt 3hrs</td>
<td>Select from COMM 203, 205 or 243.</td>
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unofficial evaluation

Area: Life and Physical Sciences (16.000 credits) - Not Met

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<td>No AND</td>
<td>B.</td>
<td>Science Rqmt I 4hrs</td>
<td>Select from QCNG 451 or PHYS 208.</td>
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<tr>
<td>No AND</td>
<td>C.</td>
<td>Science Rqmt 8hrs</td>
<td>Select from ASTR 111; BIOL 111, 112; CHEM 101, 102, 103, 104, 111, 112, 113, 114.</td>
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Total Credits and GPA 0.000
unofficial evaluation

**Area : Language, Philosophy & Culture ( 3.000 credits ) - Not Met**

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<th>Attribute</th>
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<th>Courses</th>
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<td>Language, Philosophy &amp; Culture</td>
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<td>Select from any 200-499 course with the [KLPC] attribute.</td>
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Total Credits and GPA  0.000

unofficial evaluation

**Area : Creative Arts ( 3.000 credits ) - Not Met**

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<th>Attribute</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Creative Arts Requirement</td>
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<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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Total Credits and GPA  0.000

unofficial evaluation

**Area : Social and Behavioral Science ( 3.000 credits ) - Not Met**

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<th>Courses</th>
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<td>No</td>
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<td>Economics Rqmt 3hrs</td>
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<td></td>
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<td>Select from ECON 202, 203.</td>
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Total Credits and GPA  0.000

unofficial evaluation

**Area : Citizenship ( 12.000 credits ) - Not Met**

**Description :** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<th>Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
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<td>American History Rqmt 6hrs</td>
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<tr>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
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| No  | AND            | B.                  |     |      |          |          |      |                      |           |         |         |
|     |                | Political Science Rqmt 6hrs |     |      |          |          |      |                      |           |         |         |
|     |                | Take POLS 206 and POLS 207. |     |      |          |          |      |                      |           |         |         |

Total Credits and GPA

unofficial evaluation

**Area : General Electives ( 11.000 credits ) - Not Met**

<table>
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<tr>
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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.PVerifyDispEvalViewOption 10/5/2015
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<tr>
<td></td>
<td></td>
<td>Select from any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; KINE 199; MATH 309, 311, 367-368, 375-376; PHYS 109/119, 201-202, 205; PSYC 203; SOMS 111, 180; STAT 201, 225, 201-303; STLC 102).</td>
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**Total Credits and GPA**: 0.000

**unofficial evaluation**

<table>
<thead>
<tr>
<th>Area</th>
<th>Work Not Applied - Met</th>
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<tbody>
<tr>
<td><strong>Description</strong>: See advisor for acceptable substitutions.</td>
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<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
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<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
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**Total Credits and GPA**

**unofficial evaluation**

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<tr>
<th>Area</th>
<th>University Writing Requirement - Not Met</th>
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<tr>
<td>**Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
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<td></td>
<td>Two courses required.</td>
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<td></td>
<td>Only sections of MATH 100-499; STAT 407; or UGST 491 with the Writing attribute [UWRT] or the Oral Communication attribute [UCRT] may be used to satisfy this requirement.</td>
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**Total Credits and GPA**: 0.000

**unofficial evaluation**

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<tr>
<th>Area</th>
<th>Int'l &amp; Cult Diversity - Not Met</th>
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</thead>
<tbody>
<tr>
<td>**Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
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</table>

**Total Credits and GPA**: 0.000

**unofficial evaluation**

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<th>Area</th>
<th>Foreign Language - Not Met</th>
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<td>**Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Foreign Language Rqmt</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000

unofficial evaluation

Area: Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses
No A. Residence - Major 12hrs
No AND B. Residence 300-499 24hrs
Includes any 300-499 course taken in residence at Texas A&M University.

Total Credits and GPA

unofficial evaluation

Area: GPR-Major - Not Met
Description: A GPR of 2.00 must be maintained in all major field courses.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses
No A. Major GPR 48+hrs
Includes MATH 151-489; STAT 211-212; STAT 409-415; CPSC 203-489; ISEN 411-489.

Total Credits and GPA

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - ACTUARIAL SCIENCE EMPHASIS
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B. S. in Applied Mathematical Sciences - Actuarial Emphasis

5. Brief description of change:
   *To change MATH electives Rule D to, “Select from MATH 325, 403-499.”

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

7. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached.  ☑ Yes  ☐ No
   b. Current catalog curriculum with handwritten edits attached.  ☑ Yes  ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached.
      ☑ Yes  ☐ No
      Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐ Yes  ☑ No
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      ☑ Yes  ☐ No
      http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2755AD3BBF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  ☐ Yes  ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Dr. Paulo Lima-Filho  10/15/15
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  10-16-15 Date

Dean of College  10-16-15 Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 04/14

R RECEIVED OCT 20 2015 CURRICULAR SERVICES
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

Program: BS APMS-Actuarial Science
Campus: College Station
College: Science
Degree: Bachelor of Science
Level: Undergraduate
Majors: Applied Mathematical Sciences
Departments: Mathematics
Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: 
Request Number: 10
Results as of: Oct 05, 2015
Concentrations:

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Transfer: 0.000

This is NOT an official evaluation.

Area: Major Coursework (28.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
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<tr>
<th>No</th>
<th>A</th>
<th>Mathematics Rqmt I 4hrs</th>
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<tr>
<td></td>
<td>Take MATH 171, Must make a grade of 'C' or better.</td>
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<th>Mathematics Rqmt II 4hrs</th>
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<tr>
<td></td>
<td>Take MATH 172, Must make a grade of 'C' or better.</td>
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<th>No</th>
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<tr>
<td></td>
<td>Take MATH 221, Must make a grade of 'C' or better.</td>
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<tr>
<th>No</th>
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<table>
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<tr>
<th>No</th>
<th>AND</th>
<th>E</th>
<th>MATH 323</th>
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<td>Must make a grade of 'C' or better.</td>
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<tr>
<th>No</th>
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<th>MATH 409</th>
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<th>No</th>
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unofficial evaluation

**Area : Supporting Coursework (40.000 credits) - Not Met**

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<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>A.</td>
<td></td>
<td></td>
<td>MATH 325</td>
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<tr>
<td>No AND</td>
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<td>MATH 425</td>
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<tr>
<td>No AND</td>
<td>C.</td>
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<td></td>
<td>MATH 411</td>
<td>STAT 414</td>
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<tr>
<td>No AND</td>
<td>D.</td>
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<td></td>
<td>MATH/STAT/ENGR Reqmt 6hrs</td>
<td>Select from CSCE 210-499 (except CPSC 442); ISEN 420, 421; MATH 407-450, 452-456; STAT 407-415.</td>
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<td>No AND</td>
<td>E.</td>
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<td>Electives 8hrs</td>
<td>Select from ECON 311-499; ECNT 463; FINC 309-489.</td>
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<td>No AND</td>
<td>F.</td>
<td>STAT</td>
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<td>STAT 211</td>
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<td>STAT</td>
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<td>STAT 212</td>
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<td>No AND</td>
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<td>CSCE</td>
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<td>Reqmt 8hrs</td>
<td>Select from CSCE 110, 111, 121 or 206.</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Communication (6.000 credits) - Not Met**

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<td>Communication Reqmt 3hrs</td>
<td>Select from COMM 203, 205 or 243.</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Life and Physical Sciences (16.000 credits) - Not Met**

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<td>Select from OCNG 451 or PHYS 208.</td>
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<td>No AND</td>
<td>C.</td>
<td>Science Reqmt 8hrs</td>
<td>Select from ASTR 111; BIOL 111, 112; CHEM 101, 102, 103, 104, 111, 112, 113, 114.</td>
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Total Credits and GPA 0.000

unofficial evaluation

Must make a grade of 'C' or better.

Total Credits and GPA 0.000

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P VerifyDispEvalViewOption

10/5/2015
**Area : Language, Philosophy & Culture (3.000 credits) - Not Met**

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<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>Language, Philosophy &amp; Culture</td>
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<td>Select from any 200-499 course with the [VI PC] attribute.</td>
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Total Credits and GPA 3.000

unofficial evaluation

**Area : Creative Arts (3.000 credits) - Not Met**

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<th>Required</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
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<tbody>
<tr>
<td>No</td>
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<td>Creative Arts Requirement</td>
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<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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Total Credits and GPA 0.500

unofficial evaluation

**Area : Social and Behavioral Science (3.000 credits) - Not Met**

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<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Economics Req't 3hrs</td>
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<td></td>
<td>Select from ECON 202, 203.</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Citizenship (12.000 credits) - Not Met**

Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
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<th>Met</th>
<th>Condition Rule</th>
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<th>Low</th>
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<th>Required</th>
<th>Required</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>American History Req't 6hrs</td>
<td></td>
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<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
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<tr>
<td>No AND B</td>
<td></td>
<td>Political Science Req't 6hrs</td>
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<td></td>
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<td></td>
<td>Take POLS 206 and POLS 207.</td>
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Total Credits and GPA

unofficial evaluation

**Area : General Electives (9.000 credits) - Not Met**

<table>
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<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tbody>
<tr>
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<td>A.</td>
<td>General Electives 9hrs</td>
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<td>Select from any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; KINE 199; MATH 309, 311, 367-368, 375-376; PHYS 109/119, 201-202, 205; PSYC 203;</td>
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unofficial evaluation

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unofficial evaluation

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<td>Only sections of MATH 100-499, ECON 323, 445; ECON 463; STAT 407 or UIGST 491 with the Writing attribute (UWRT) or the Oral Communication attribute (UCRT) may be used to satisfy this requirement.</td>
<td>Only sections of MATH 100-499, ECON 323, 445; ECON 463; STAT 407 or UIGST 491 with the Writing attribute (UWRT) or the Oral Communication attribute (UCRT) may be used to satisfy this requirement.</td>
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unofficial evaluation

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<td>Select from courses with the International and Cultural Diversity attribute (UICD) (except sections of BUSN 289 with the UWRT attribute).</td>
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unofficial evaluation

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<td>Complete one of the following:</td>
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<td>Complete one of the following:</td>
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<tr>
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<td>1. Two years of the same foreign language in High School.</td>
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<td>1. Two years of the same foreign language in High School.</td>
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<td>2. A two semester sequence of the same foreign language for University credit.</td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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unofficial evaluation
**Area:** Residence Requirement - Not Met  
**Description:** A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field. 

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<td>Residence</td>
<td>Major</td>
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<tr>
<td>No AND</td>
<td>B.</td>
<td>Residence</td>
<td>300-499</td>
<td>24hrs</td>
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Includes any 300-499 course taken in residence at Texas A&M University.

**unofficial evaluation**

**Area:** GPR-Major - Not Met  
**Description:** A GPR of 2.00 must be maintained in all major field courses. 

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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</table>

Includes CSCE 110-499 (except CSCE 442); MATH 147-489; ISEN 411-489; STAT 211-212, 400-499.

**unofficial evaluation**

Back to Display Options  

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - BIOLOGICAL SCIENCE EMPHASIS
Texas A&M University
Request for a Change in Curriculum
Undergraduate  Graduate  Professional

1. Program request type: ☑ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Applied Mathematical Sciences - Biological Science Emphasis

5. Brief description of change:
   *To change MATH electives Rule E to, "Select from MATH 325, 403-499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  ☑ Yes  □ No
    b. Current catalog curriculum with handwritten edits attached.  ☑ Yes  □ No
    c. Current Howdy degree evaluation with handwritten edits attached.  ☑ Yes  □ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  □ Yes  ☑ No
    b. If yes, degree program hours will change from: _________ to: _________
    c. If yes, is the Texas Higher Education Coordinating Board form attached?
       http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  □ Yes  ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho  10/15/15
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee  10-15-15

Dean of College  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 815 8201 or sandra.williams@tamu.edu
Curricular Services – 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM: 01, 103, 117, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM: 02, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

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| Catalog Term | Fall 2015 - College Station |
| Evaluation Term | Fall 2015 - College Station |
| Expected Graduation Date | |
| Request Number | 11 |
| Results as of | Oct 05, 2015 |

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| Program GPA | Yes |
| Overall GPA | No |

| Transfer | 0.00 |
| 0 |

This is NOT an official evaluation.

Area: Major Coursework (28.600 credits) - Not Met

| No | A. Mathematics Rqmt I 4hrs |
| AND | Take MATH 171. Must make a grade of 'C' or better. |
| No | B. Mathematics Rqmt II 4hrs |
| AND | Take MATH 172. Must make a grade of 'C' or better. |
| No | C. Mathematics Rqmt III 4hrs |
| AND | Take MATH 221. Must make a grade of 'C' or better. |
| No | D. MATH 220 |
| AND | Must make a grade of 'C' or better. |
| No | E. MATH 323 |
| AND | Must make a grade of 'C' or better. |
| No | F. MATH 409 |
| No | G. MATH 417 or 437 |
| No | H. MATH 308 |
unofficial evaluation

Area: Supporting Coursework (34.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

Area: Communication (6.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

Area: Life and Physical Sciences (28.000 credits) - Not Met

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Total Credits and GPA 0.000
unofficial evaluation

**Area:** Language, Philosophy & Culture (3.000 credits) - Not Met  
**Met**  
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Total Credits and GPA 0.000

unofficial evaluation

**Area:** Creative Arts (3.000 credits) - Not Met  
**Met**  
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Total Credits and GPA 0.000

unofficial evaluation

**Area:** Social and Behavioral Science (3.000 credits) - Not Met  
**Met**  
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Total Credits and GPA 0.000

unofficial evaluation

**Area:** Citizenship (12.000 credits) - Not Met  
**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<td>Select from any course with the [KHIS] attribute.</td>
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<td>Take POLS 206 and POLS 207.</td>
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Total Credits and GPA

unofficial evaluation

**Area:** General Electives (3.000 credits) - Not Met  
**Met**  
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### General Electives 3 hrs
Select from any 100-499 course not used elsewhere. (except ALED 125; ASTR 199/119; KINE 199; MATH 309, 311, 367-368, 375-376; PHYS 109/119, 201-202, 205; PSYC 203; SOMS 111, 180; STAT 201, 225, 301-303; STLC 102).

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**Total Credits and GPA:** 0.000

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### Work Not Applied - Met

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**Total Credits and GPA:** 0.000

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### Int'l & Cult Diversity - Not Met

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**Total Credits and GPA:** 0.000

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### Foreign Language - Not Met

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**Total Credits and GPA:** 0.000
unofficial evaluation

| Area : Residence Requirement - Not Met |
| Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field. |
| Met : Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C |
| Credits | Courses |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No | A. Residence - Major 12hrs |
| No | AND B. Residence 300-499 24hrs |
| | Includes any 300-499 course taken in residence at Texas A&M University. |
| Total Credits and GPA |

unofficial evaluation

| Area : GPR-Major - Not Met |
| Description : A GPR of 2.00 must be maintained in all major field courses. |
| Met : Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C |
| Credits | Courses |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No | A. Major GPR 48+hrs |
| | Includes MATH 151-489; STAT 211-212; STAT 409-415; CPSC 203-489; ISEN 411-489. |
| Total Credits and GPA |

unofficial evaluation

Back to Display Options

6

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - COMPUTATIONAL SCIENCE EMPHASIS
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:  ☑ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B. S. in Applied Mathematical Sciences - Computational Science Emphasis

5. Brief description of change:
   *To change MATH electives Rule H to, "Select from MATH 325, 403-499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes  □ No
    b. Current catalog curriculum with handwritten edits attached. ☑ Yes  □ No
    c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes  □ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes  ☑ No
    b. If yes, degree program hours will change from: ________ to: ________
    c. If yes, is the Texas Higher Education Coordinating Board form attached?
       http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes  ☑ No

---

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Dr. Paulo Lima-Filho  10/15/15

Dean of College  Date

Chair, College Review Committee  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or send email to curricularservices@tamu.edu
Curricular Services - 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

Program: BS APMS-Computational Science

Campus: College Station

College: Science

Degree: Bachelor of Science

Level: Undergraduate

Majors: Applied Mathematical Sciences

Departments: Mathematics

Catalog Term: Fall 2015 - College Station

Evaluation Term: Fall 2015 - College Station

Expected Graduation Date: 

Request Number: 12

Results as of: Oct 05, 2015

Met Credits Courses

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Other Course Information

Transfer: 0.000 0

This is NOT an official evaluation.

Area: Major Coursework (24.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No A. Mathematics Rqmt I 4hrs
    Take MATH 171.
    Must make a grade of 'C' or better.

No AND B. Mathematics Rqmt II 4hrs
    Take MATH 172.
    Must make a grade of 'C' or better.

No AND C. Mathematics Rqmt III 4hrs
    Take MATH 221.
    Must make a grade of 'C' or better.

No AND D. MATH 220
    Must make a grade of 'C' or better.

No AND E. MATH 323
    Must make a grade of 'C' or better.

No AND F. MATH 308
    Must make a grade of 'C' or better.

No AND G. MATH 409

unofficial evaluation

## Area: Supporting Coursework (44.000 credits) - Not Met

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<td>B.</td>
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Total Credits and GPA 0.000

unofficial evaluation

## Area: Communication (6.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

## Area: Life and Physical Sciences (16.000 credits) - Not Met

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### unofficial evaluation

**Area:** Language, Philosophy & Culture (3.000 credits) - Not Met

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Select from any 200-499 course with the [KLPC] attribute.

Total Credits and GPA 0.000

### unofficial evaluation

**Area:** Creative Arts (3.000 credits) - Not Met

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Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

### unofficial evaluation

**Area:** Social and Behavioral Science (3.000 credits) - Not Met

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Select from ECON 202, 203.

Total Credits and GPA 0.000

### unofficial evaluation

**Area:** Citizenship (12.000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<th>Required Term</th>
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Select from any course with the [KHS] attribute.

| No  | AND | B.     | Political Science Rqmt 6hrs |          |                |         |              |           |         |         |

Take POLS 206 and POLS 207.

Total Credits and GPA

### unofficial evaluation

**Area:** General Electives (9.000 credits) - Not Met
<table>
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<tr>
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<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. General Electives 9hrs</td>
</tr>
<tr>
<td></td>
<td>Select from any 100-499 course not used elsewhere. (except AERS 101-299; AGEN 102; AGLS 101; AGRO 101; BINS 101; BIOL 101, 107; BUSN 100, 300; EDCT 120, 181; ENGR 101; EPSY 101-102; HORT 101; KINE 199; LAND 200; MATH 102-104, 130-131, 141-142, 150-152, 165-166, 171-172, 302, 304, 308, 311, 310, 365-366, 375-376, 401, 405, 453; MLSC 161-299; MVSC 101-399; PHYS 101, 201-202; PSYC 203; REM 102; RTTS 101; SCMT 303; STAT 201, 301-303; STLC 101-499; WESC 101.)</td>
</tr>
<tr>
<td></td>
<td>Total Credits and GPA 0.000</td>
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</table>

unofficial evaluation

| Area : | Work Not Applied - Met |
| Description : | See advisor for acceptable substitutions. |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Courses not applied |
|     | Total Credits and GPA |

unofficial evaluation

| Area : | University Writing Requirement - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| Nu | A. Writing Requirement |
|     | Two courses required. |
|     | Only sections of MATH 100-499; STAT 407; or UGST 491 with the Writing attribute [UWRT] or the Oral Communication attribute [UCRT] may be used to satisfy this requirement. |
|     | Total Credits and GPA 0.000 |

unofficial evaluation

| Area : | Int'l & Cult Diversity - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Int'l & Cultural Diversity 6hr |
|     | Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 209 with the UWRT attribute). |
|     | Total Credits and GPA 0.000 |

unofficial evaluation

| Area : | Foreign Language - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Foreign Language Reqnt |

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>No</td>
<td>A. Residence - Major 12hrs</td>
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<tr>
<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
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<td>Includes any 300-499 course taken in residence at Texas A&amp;M University.</td>
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unofficial evaluation

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<th>Area</th>
<th>GPR-Major - Not Met</th>
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<tr>
<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Major GPR 53+hrs</td>
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<tr>
<td></td>
<td>Includes: CPSC 203-489; ISEN 420-421; MATH 151-489 (except MATH 166, 170); STAT 211-212, 407-415.</td>
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unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - ECONOMICS EMPHASIS
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type:
   - [ ] Undergraduate
   - [ ] Graduate
   - [ ] First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   - [ ] Degree Program
   - [ ] Minor
   - [ ] Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B. S. in Applied Mathematical Sciences - Economics Emphasis

5. Brief description of change:
   "To change MATH electives Rule C to, "Select from MATH 325, 403-499."

6. Rationale for change:
   "To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

7. Use the checkboxes below to make sure that all information is included.
   - [ ] Yes
   - [ ] No
   a. Proposed curriculum attached.
   - [ ] Yes
   - [ ] No
   b. Current catalog curriculum with handwritten edits attached.
   - [ ] Yes
   - [ ] No
   c. Current Howdy degree evaluation with handwritten edits attached.
   - [ ] Yes
   - [ ] No
   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   - [ ] Yes
   - [ ] No
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3DDF701D60
   - [ ] Yes
   - [ ] No

9. If proposed changes affect other unit(s), are letters of support attached?
   - [ ] Yes
   - [ ] No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paula Lima-Filho
Date: 10/15/15

Dean of College
Date: 10-16-15

Chair, College Review Committee
Date: 10-15-15

Chair, GC of UCC
Date: 10-20-15

Questions regarding this form should be directed to Curricular Services at 845 8201 or sandra.williams@tamu.edu.
Curricular Services - 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

Program: BS APMS-Economics
Campus: College Station
College: Science
Degree: Bachelor of Science
Level: Undergraduate
Majors: Applied Mathematical Sciences
Departments: Mathematics

Catalog Term: Fall 2015 - College Station
Evaluation Term: Fall 2015 - College Station
Expected Graduation Date: 
Request Number: 13
Results as of: Oct 05, 2015

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<th>Courses</th>
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Program GPA: Yes
Overall GPA: No

Other Course Information
Transfer: 0.00

This is NOT an official evaluation.

Area: Major Coursework (27,000 credits) - Not Met

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<tr>
<th>No</th>
<th>A.</th>
<th>Mathematics Rqmt I 4hrs</th>
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<tr>
<td></td>
<td>Take MATH 171.</td>
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<td>Take MATH 172.</td>
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<td>Take MATH 253.</td>
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unofficial evaluation

**Area : Supporting Coursework (38.000 credits) - Not Met**

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<td>I.</td>
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<td>CSCE Elect 8hrs</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Communication (6.000 credits) - Not Met**

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<th>Subject</th>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Life and Physical Sciences (16.000 credits) - Not Met**

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<td>Science Rqmt I 4hrs</td>
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<tr>
<td>No   AND</td>
<td>C.</td>
<td></td>
<td>Science Rqmt 8hrs</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Language, Philosophy & Culture (3.000 credits) - Not Met**

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<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute Low</th>
<th>High Required</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Language, Philosophy &amp; Culture</td>
<td>Select from any 200-499 course with the [KLPC] attribute.</td>
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Total Credits and GPA 0.009

unofficial evaluation

**Area : Creative Arts (3.000 credits) - Not Met**

<table>
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<th>Attribute Low</th>
<th>High Required</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [KCRTA].</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Social and Behavioral Science (3.000 credits) - Not Met**

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<th>Attribute Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>Economics Reqmt 3hrs</td>
<td>Select from ECON 202, 203.</td>
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Total Credits and GPA 0.000

unofficial evaluation

**Area : Citizenship (12.000 credits) - Not Met**

*Description:* Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<tr>
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<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute Low</th>
<th>High Required</th>
<th>Required Term Subject</th>
<th>Course Title</th>
<th>Attribute Credits</th>
<th>Courses</th>
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<tr>
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<td>American History</td>
<td>Select from any course with the [KHIS] attribute.</td>
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<td>AND</td>
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<td>Political Science Reqmt 6hrs</td>
<td>Take POLS 206 and POLS 207.</td>
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Total Credits and GPA

unofficial evaluation

**Area : General Electives (12.000 credits) - Not Met**

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unofficial evaluation

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<td>Description</td>
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unofficial evaluation

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unofficial evaluation

### Residence Requirement - Not Met

**Description**: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

<table>
<thead>
<tr>
<th>Met</th>
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<th>Rule</th>
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<th>High</th>
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<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Residence - Major 12hrs</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B. Residence 300-499 24hrs</td>
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</table>

Includes any 300-499 course taken in residence at Texas A&M University.  

[Total Credits and GPA](#)

**unofficial evaluation**

### GPR-Major - Not Met

**Description**: A GPR of 2.00 must be maintained in all major field courses.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>C Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
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</table>

Includes: CPSC 203-489; ECMT 463; ECON 311-489; INEN 411-489; ISEN 411-489; MATH 151-489 (exclude MATH 166, 170); STAT 211-212, 407-415.  

[Total Credits and GPA](#)

**unofficial evaluation**

---

**Back to Display Options**  
6  

[Print](#)
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - STATISTICS EMPHASIS
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DPM, JD, MD, etc.)

2. Request change for: ☑ Degree Program ☐ Minor ☐ Certificate

3. Request submitted by (Department or Program Name):

Program Designation and Name
(e.g., B.A. in History, Minor in History, Certificate in European Union):
Department of Mathematics
B. S. in Applied Mathematical Sciences - Statistics Emphasis

5. Brief description of change:
*To change MATH electives Rule E to, "Select from MATH 325, 403-499."

6. Rationale for change:
*To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

7. Use the checkboxes below to make sure that all information is included.

a. Proposed curriculum attached. ☑ Yes ☐ No
b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
b. If yes, degree program hours will change from: _________ to: _________
c. If yes, is the Texas Higher Education Coordinating Board form attached?
   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60
   ☐ Yes ☑ No

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to assure timely implementation.

Approval recommended by:
Dr. Paulo Lima-Filho 10/15/15

Dean of College 10-16-15

Chair, College Review Committee 10-15-15

Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or aanfinn-william.johnson@tamu.edu.
Curricular Services – 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

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<thead>
<tr>
<th>Program :</th>
<th>BS APMS-Statistics</th>
<th>Catalog Term :</th>
<th>Fall 2015 - College Station</th>
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<td>College Station</td>
<td>Evaluation Term :</td>
<td>Fall 2015 - College Station</td>
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<td>College :</td>
<td>Science</td>
<td>Expected Graduation Date :</td>
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<tr>
<td>Degree :</td>
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<td>Request Number :</td>
<td>14</td>
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<td>Level :</td>
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<td>Oct 05, 2015</td>
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<td>Departments :</td>
<td>Mathematics</td>
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<td>Required</td>
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<tr>
<td>Program GPA :</td>
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<td>Overall GPA :</td>
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</tr>
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<td>Other Course Information</td>
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<td>Transfer :</td>
<td>0.000</td>
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</tbody>
</table>

This is NOT an official evaluation.

Area : Major Coursework (28,000 credits) - Not Met

| Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
|--------------------------------------------------|--------------------------------------------------|--------------------------|--------------------------|--------------------------|
| No A. Mathematics Rqmt I 4hrs                   | Take MATH 171.                                   | Must make a grade of 'C' or better. |
| No AND B. Mathematics Rqmt II 4hrs               | Take MATH 172.                                   | Must make a grade of 'C' or better. |
| No AND C. Mathematics Rqmt III 4hrs              | Take MATH 221.                                   | Must make a grade of 'C' or better. |
| No AND D. MATH 220                               | Must make a grade of 'C' or better.              |
| No AND E. MATH 323                               | Must make a grade of 'C' or better.              |
| No AND F. MATH 409                               |                                                    |
| No AND G. MATH 417 or 637                        |                                                    |
| No AND H. MATH 308                               |                                                    |
unofficial evaluation

### Area: Supporting Coursework (38.000 credits) - Not Met

<table>
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<th>Subject</th>
<th>Attribute</th>
<th>Low High Required Required Term Subject</th>
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<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>MATH</td>
<td>STAT 411</td>
<td>or STAT 414</td>
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<td>STAT</td>
<td>407</td>
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<td>No</td>
<td>AND</td>
<td>STAT</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>ISEN</td>
<td>Rqmt 3hrs</td>
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<td></td>
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<td>Select from ISEN 423, 421.</td>
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<td>No</td>
<td>AND</td>
<td>MATH/STAT</td>
<td>Rqmt 6hrs</td>
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<td>Select from MATH 375, 407-450, 452-465; STAT 410, 415, 485, 489.</td>
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<td>No</td>
<td>AND</td>
<td>MATH/STAT/ENGR</td>
<td>Rqmt 6hrs</td>
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<td>Select from CSCE 210-499 (except 442); ISEN 400-499; MATH 325, 407-450, 452-489; STAT 400-499.</td>
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<td>No</td>
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<td>STAT</td>
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<td>AND</td>
<td>CSCE</td>
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<td>Select from CSCE 110, 111, 123, or 206</td>
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Total Credits and GPA: 0.000

unofficial evaluation

### Area: Communication (6.000 credits) - Not Met

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<th>Condition Rule</th>
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<th>Attribute</th>
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<td>ENGL</td>
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<td>No</td>
<td>AND</td>
<td>COMM</td>
<td>Rqmt 3hrs</td>
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<td>Select from COMM 203, 205 or 243.</td>
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Total Credits and GPA: 0.000

unofficial evaluation

### Area: Life and Physical Sciences (16.000 credits) - Not Met

<table>
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<th>Subject</th>
<th>Attribute</th>
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<td>PHYS</td>
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<td>No</td>
<td>AND</td>
<td>OCHG</td>
<td>Rqmt I 4hrs</td>
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<td>Select from OCHG 451 or PHYS 268.</td>
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<td>No</td>
<td>AND</td>
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<td>Rqmt 8hrs</td>
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<td></td>
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<td></td>
<td>Select from ASTR 111; BIOL 111, 112; CHEM 101, 102, 103, 104, 111, 112, 113, 114.</td>
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</table>

Total Credits and GPA: 0.000
unofficial evaluation

Area: Language, Philosophy & Culture (3.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Language, Philosophy & Culture
Select from any 200-499 course with the [KLPC] attribute.
Total Credits and GPA 0.000

unofficial evaluation

Area: Creative Arts (3.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Creative Arts Requirement
Select three hours from any course with the Creative Arts attribute [KCRA].
Total Credits and GPA 0.000

unofficial evaluation

Area: Social and Behavioral Science (3.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Economics Rqmt 3hrs
Select from ECON 202, 203.
Total Credits and GPA 0.000

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. American History Rqmt 6hrs
Select from any course with the [KHIS] attribute.
No AND B. Political Science Rqmt 6hrs
Take POLS 206 and POLS 207.
Total Credits and GPA

unofficial evaluation

Area: General Electives (11.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
### General Electives 11hrs

Select from any 100-499 course not used elsewhere. (except AERS 101-299; AGEN 102; AGLS 101; AGRO 101; BIMS 101; BIOI 101, 107; BUSN 100, 300; EDCI 120, 181; ENGR 101; EPED 101-102; HORT 101; KINE 199; LAND 200; MATH 102-104, 130-131, 141-142, 150-152, 165-166, 171-172, 302, 304, 308, 311, 330, 365-366, 375-376, 401, 405, 419; MLSC 101-299; MVSC 101-299; PHYS 101, 201-202; PSYC 271; RJ PM 102; RPT 101; SFMT 102; STAT 211, 401-405; STL 102-499; WESC 101.)

Total Credits and GPA 0.000

---

### Unofficial Evaluation

**Area:** Work Not Applied - Met

**Description:** See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Courses not applied</td>
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</table>

Total Credits and GPA

---

### Unofficial Evaluation

**Area:** University Writing Requirement - Not Met

**Met**

**Condition Rule**

**Subject Attribute**

**Low**

**High**

**Required**

**Required Term**

**Subject Course**

**Title Attribute**

**Credits**

**Courses**

<table>
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<tr>
<th>No</th>
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<tbody>
<tr>
<td>A.</td>
<td>Two courses required.</td>
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</table>

Only sections of MATH 100-499; STAT 407; or UGST 491 with the Writing attribute [UWRT] or the Oral Communication attribute [UCPT] may be used to satisfy this requirement.

Total Credits and GPA 0.003

---

### Unofficial Evaluation

**Area:** Int'l & Cult Diversity - Not Met

**Met**

**Condition Rule**

**Subject Attribute**

**Low**

**High**

**Required**

**Required Term**

**Subject Course**

**Title Attribute**

**Credits**

**Courses**

<table>
<thead>
<tr>
<th>No</th>
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<th>A. Int'l &amp; Cultural Diversity 6hr</th>
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<tbody>
<tr>
<td>6hr</td>
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<td>Select from courses with the International and Cultural Diversity attribute [UCDD] (except sections of BUSN 289 with the UWPT attribute).</td>
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</table>

Total Credits and GPA 0.000

---

### Unofficial Evaluation

**Area:** Foreign Language - Not Met

**Met**

**Condition Rule**

**Subject Attribute**

**Low**

**High**

**Required**

**Required Term**

**Subject Course**

**Title Attribute**

**Credits**

**Courses**

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<tr>
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<th>A. Foreign Language Reqmt</th>
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<tr>
<td>1.</td>
<td></td>
<td>Complete one of the following:</td>
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1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for
unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses</td>
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<tr>
<td>No</td>
<td>AND</td>
</tr>
<tr>
<td></td>
<td>A. Residence - Major 12hrs</td>
</tr>
<tr>
<td></td>
<td>B. Residence 300-499 24hrs</td>
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</table>

Includes any 300-499 course taken in residence at Texas A&M University.

unofficial evaluation

<table>
<thead>
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<th>Area</th>
<th>GPR-Major - Not Met</th>
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<tr>
<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses</td>
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<tr>
<td>No</td>
<td>AND</td>
</tr>
<tr>
<td></td>
<td>A. Major GPR 52+hrs</td>
</tr>
</tbody>
</table>

Includes MATH 151-489; STAT 211-212; STAT 407-415; CIPSC 203-489; ISE 411-489.

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN APPLIED MATHEMATICAL SCIENCES - 5-YEAR DEGREE PROGRAM
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☒ Undergraduate    ☐ Graduate    ☐ First Professional (e.g., DVM, JD, MD, etc.)
2. Request change for: ☒ Degree Program    ☐ Minor    ☐ Certificate
3. Request submitted by (Department or Program Name):
   Program Designation and Name: Department of Mathematics
   (e.g., B.A. in History, Minor in History, Certificate in European Union): B.S. in Applied Mathematical Sciences - 5 YR

4. Brief description of change:
   *To change MATH electives Rule C to, "Select from MATH 325, 403-499."

5. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☒ Yes    ☐ No
    b. Current catalog curriculum with handwritten edits attached. ☒ Yes    ☐ No
    c. Current Howdy degree evaluation with handwritten edits attached. ☒ Yes    ☐ No

*Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.*

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes    ☐ No
    b. If yes, degree program hours will change from: _________ to: _________
    c. If yes, is the Texas Higher Education Coordinating Board form attached? http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60 ☐ Yes    ☐ No

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes    ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho 10/15/15
Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date
Chair, College Review Committee 10-15-15
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandrin@tamu.edu Curricular Services - 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

<table>
<thead>
<tr>
<th>Program :</th>
<th>BS APMS SYR</th>
<th>Catalog Term :</th>
<th>Fall 2015 - College Station</th>
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<tr>
<td>Campus :</td>
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<td>Evaluation Term :</td>
<td>Fall 2015 - College Station</td>
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<tr>
<td>College :</td>
<td>Science</td>
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<td>Degree :</td>
<td>Bachelor of Science</td>
<td>Request Number :</td>
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<td>Departments :</td>
<td>Mathematics</td>
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<th>Met Credits</th>
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<td>Program GPA :</td>
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<tr>
<td>Overall GPA :</td>
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Other Course Information

Transfer : 0.000 0

This is NOT an official evaluation.

Area : Major Coursework (28.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No AND A. Mathematics Rqmt I 4hrs
Take MATH 171.
Must make a grade of 'C' or better.

No AND B. Mathematics Rqmt II 4hrs
Take MATH 172.
Must make a grade of 'C' or better.

No AND C. Mathematics Rqmt III 4hrs
Take MATH 221.
Must make a grade of 'C' or better.

No AND D. MATH 220
Must make a grade of 'C' or better.

No AND E. MATH 323
Must make a grade of 'C' or better.

No AND F. MATH 409

No AND G. MATH 417 or 437

No AND H. MATH 308
unofficial evaluation

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<th>Area</th>
<th>Supporting Coursework (38.000 credits) - Not Met</th>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Analys &amp; Adv. Calc II 3hrs Select from MATH 413, 446.</td>
</tr>
<tr>
<td>No AND</td>
<td>B. Algebra Rqmt 3hrs Select from MATH 415, 433.</td>
</tr>
<tr>
<td>No AND</td>
<td>C. Mathematics Elect 1 6hrs Select from MATH 412, 414, 442, 470-471 and select one from MAT-325, 407-409.</td>
</tr>
<tr>
<td>No AND</td>
<td>D. Mathematics Elect II 6hrs Select from MATH 603-628, 630-639, 641-644, 647-634. There 6 hours will be used to satisfy degree requirements for both the undergraduate ARMS degree and the master of science degree in mathematics.</td>
</tr>
<tr>
<td>No AND</td>
<td>E. MATH/STAT/ENGR Rqmt 6hrs Select from CSCE 210-452, 461-481; ISEN 420, 421; math 325, 407-409; STAT 407-415.</td>
</tr>
<tr>
<td>No AND</td>
<td>F. STAT 211</td>
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<tr>
<td>No AND</td>
<td>G. STAT 212</td>
</tr>
<tr>
<td>No AND</td>
<td>H. CSCE Rqmt 8hrs Select from CSCE 110-111, 121, 205.</td>
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unofficial evaluation

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<tr>
<th>Area</th>
<th>Communication (6.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. ENGL 104</td>
</tr>
<tr>
<td>No AND</td>
<td>B. Communication Rqmt 3hrs Select from C0MM 203, 205 or 243.</td>
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unofficial evaluation

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<tr>
<th>Area</th>
<th>Life and Physical Sciences (18.000 credits) - Not Met</th>
</tr>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. PHYS 218</td>
</tr>
<tr>
<td>No AND</td>
<td>B. Science Rqmt I 4hrs Select from CHEM 451 or PHYS 218.</td>
</tr>
<tr>
<td>No AND</td>
<td>C. Science Rqmt 8hrs Select from ASTR 111, B1OL 111, 112; CHEM 103, 102, 103.</td>
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unofficial evaluation

**Area : Language, Philosophy & Culture (3.000 credits) - Not Met**

<table>
<thead>
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<th>Condition Rule Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Language, Philosophy &amp; Culture</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select from any 200-499 course with the [KLPC] attribute.</td>
<td></td>
<td></td>
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unofficial evaluation

**Area : Creative Arts (3.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
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<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Creative Arts Requirement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
<td></td>
<td></td>
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unofficial evaluation

**Area : Social and Behavioral Science (3.000 credits) - Not Met**

<table>
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<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Economics Reqmt 3hrs</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select from ECON 202, 203.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

unofficial evaluation

**Area : Citizenship (12.000 credits) - Not Met**

**Description :** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. American History Reqmt 6hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
<td></td>
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<tr>
<td>No</td>
<td>AND B. Political Science Reqmt 6hrs</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Take POLS 206 and POLS 207.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

unofficial evaluation
### General Electives (11.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Selected Course</th>
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<tbody>
<tr>
<td></td>
<td>11hrs</td>
</tr>
</tbody>
</table>

Select from any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; KINE 199; MATH 309, 311, 367-368, 375/376; PHYS 109/119, 201-202, 205; PSYC 203; GAMS 111, 110; STAT 201, 225, 301-313; STL/C 102).

**Total Credits and GPA** 0.000

**unofficial evaluation**

### Work Not Applied - Met

**Description**: See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>No</th>
<th>Selected Course</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Courses not applied</td>
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</tbody>
</table>

**Total Credits and GPA**

**unofficial evaluation**

### University Writing Requirement - Not Met

**Description**: Two courses required. Only sections of MATH 100-499; STAT 407; or UGST 491 with the Writing attribute [UWRT] or the Oral Communication attribute [UCPT] may be used to satisfy this requirement.

<table>
<thead>
<tr>
<th>No</th>
<th>Selected Course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Writing Requirement</td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.000

**unofficial evaluation**

### Int'l & Cult Diversity - Not Met

**Description**: Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSH 289 with the UWRT attribute).

<table>
<thead>
<tr>
<th>No</th>
<th>Selected Course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
</tr>
</tbody>
</table>

**Total Credits and GPA** 0.003

**unofficial evaluation**

### Foreign Language - Not Met

**Description**: Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

<table>
<thead>
<tr>
<th>No</th>
<th>Selected Course</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Foreign Language Reqnt</td>
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**Total Credits and GPA**

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
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<tbody>
<tr>
<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required</th>
<th>Required</th>
<th>Term Subject Course Title Attribute C Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B. Residence 300-499 24hrs</td>
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</table>

Includes any 300-499 course taken in residence at Texas A&M University.

Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>GPR-Major - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<table>
<thead>
<tr>
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<th>Condition Rule Subject Attribute Low High Required</th>
<th>Required</th>
<th>Term Subject Course Title Attribute C Courses</th>
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<tr>
<td>No</td>
<td>A. Major GPR 40+hrs</td>
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</tbody>
</table>

Includes MATH 151-489; STAT 211-212; STAT 409-415; CPSC 203-400; ISEN 411-489.

Total Credits and GPA

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BA IN MATHEMATICS
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate □ Graduate □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: ☑ Degree Program □ Minor □ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.A. in Mathematics

5. Brief description of change:
   *To change MATH electives Rule J to, "Select from MATH 325, 403 - 499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

   Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes □ No
    
b. Current catalog curriculum with handwritten edits attached. ☑ Yes □ No
    
c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes □ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes ☑ No
    
b. If yes, degree program hours will change from: ______ to: ______

8c. If yes, is the Texas Higher Education Coordinating Board form attached? □ Yes ☑ No

   http://www.thec.ch.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Dr. Paulo Lima-Efthimiou 10/15/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee 16-16-15 Date

Dean of College 

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or quadro.william@tamu.edu 
Curricular Services – 04/14

R RECEIVED OCT 20 2015 CURRICULAR SERVICES
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence. No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

<table>
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<th>Catalog Term</th>
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<td>College Station</td>
<td>Evaluation Term</td>
<td>Fall 2015 - College Station</td>
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<td>Science</td>
<td>Expected Graduation Date</td>
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<tr>
<td>Departments</td>
<td>Mathematics</td>
<td>Concentrations</td>
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<tr>
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This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met

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<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Mathematics</td>
<td>Rqmt I 4hrs</td>
<td>Take MATH 171. Must make a grade of 'C' or better.</td>
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</tr>
<tr>
<td>No AND</td>
<td>B.</td>
<td>Mathematics</td>
<td>Rqmt II 4hrs</td>
<td>Take MATH 172. Must make a grade of 'C' or better.</td>
<td></td>
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</tr>
<tr>
<td>No AND</td>
<td>C.</td>
<td>Mathematics</td>
<td>Rqmt III 4hrs</td>
<td>Take MATH 221. Must make a grade of 'C' or better.</td>
<td></td>
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<td>No AND</td>
<td>D.</td>
<td>MATH</td>
<td>220</td>
<td>Must make a grade of 'C' or better.</td>
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<tr>
<td>No AND</td>
<td>E.</td>
<td>MATH</td>
<td>323</td>
<td>Must make a grade of 'C' or better.</td>
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<tr>
<td>No AND</td>
<td>F.</td>
<td>MATH</td>
<td>308</td>
<td>Must make a grade of 'C' or better.</td>
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<tr>
<td>No AND</td>
<td>G.</td>
<td>MATH</td>
<td>439</td>
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unofficial evaluation

Area: Supporting Coursework (7.000 credits) - Not Met

<table>
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<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Subjects</th>
<th>Credits</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>A.</td>
<td>STAT 21:</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Computer Science Rqmt</td>
<td>4hrs</td>
<td>Select from CSCE 110, 111, 121, 206.</td>
<td>1</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Communication (6.000 credits) - Not Met

<table>
<thead>
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<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Subjects</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>A.</td>
<td>ENGL 104</td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Communication Rqmt</td>
<td>4hrs</td>
<td>Select from COMM 203, 205 or 243.</td>
<td>1</td>
</tr>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Life and Physical Sciences (12.000 credits) - Not Met

<table>
<thead>
<tr>
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<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Subjects</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>A.</td>
<td>PHYS 118</td>
<td></td>
<td>4hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Science Rqmt</td>
<td>8hrs</td>
<td>Select from ASTR 111; BIOL 111, 112, 113, 114, CHEM 101, 102, 103, 104, 111, 112, 113, 114.</td>
<td>8</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Language, Philosophy & Culture (3.000 credits) - Not Met

<table>
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<tr>
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<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Subjects</th>
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<th>Courses</th>
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</table>

Total Credits and GPA 0.000
No  A. Language, Philosophy & Culture
Select from any 200-499 course with the [KLPC] attribute.

Total Credits and GPA 0.000

unofficial evaluation

Area : Creative Arts (3.000 credits) - Not Met
Met  Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No  A. Creative Arts Requirement
Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

unofficial evaluation

Area : Social and Behavioral Sciences (3.000 credits) - Not Met
Met  Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No  A. Social Science Rqmt 3hrs
Select from courses with the Social and Behavioral Science attribute [KSCS].

Total Credits and GPA 0.000

unofficial evaluation

Area : Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
Met  Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No  A. American History Rqmt 6hrs
Select from any course with the [KHIS] attribute.
No AND  B. Political Science Rqmt 6hrs
Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area : General Electives (35.000 credits) - Not Met
Met  Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No  A. General Electives 35hrs
Select any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; KINE 199; MATH 309, 311, 367, 368, 375, 376; PHYS 100/110, 201, 211, 215; PSYC 201; SDMS 111, 180; STAT 201, 225, 301-303; STLC 102).

Total Credits and GPA 0.000
unofficial evaluation

<table>
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<tr>
<th>Area</th>
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<td>Description</td>
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<td>A. Courses not applied</td>
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unofficial evaluation

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<th>Area</th>
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<tr>
<td>No</td>
<td>A. Required Minor</td>
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<td></td>
<td>Minor requirement not needed if minor requirement is waived by the Dean's Office.</td>
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unofficial evaluation

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<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<td>No</td>
<td>A. Writing Requirement</td>
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<tr>
<td></td>
<td>Two courses required.</td>
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<td></td>
<td>Only sections of MATH 100-499; RDNG 372; STA^ 407; or UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Int'l &amp; Cult Diversity - Not Met</th>
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</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr</td>
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<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 269 with the UWRT attribute).</td>
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unofficial evaluation

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<th>Area</th>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Foreign Language Reqmt</td>
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</table>
Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residence Requirement - Not Met</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses</td>
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<tr>
<td>Area</td>
<td>GPR-Major - Not Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses</td>
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<tr>
<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
<td>A. Major GPR 39+hrs</td>
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<td>Includes MATH 151-499; STAT 211-212; CPSC 203-489; STAT 407-412; ISEEN 411-409.</td>
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unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BA IN MATHEMATICS - 5-YEAR DEGREE PROGRAM
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   ✔ Undergraduate   □ Graduate   □ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for:
   □ Degree Program   □ Minor   □ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B. A. in Mathematics - 5 YR

5. Brief description of change:
   *To change MATH electives Rule J to, "Select from MATH 325, 403 - 499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  ✔ Yes   □ No
   b. Current catalog curriculum with handwritten edits attached.  ✔ Yes   □ No
   c. Current howdy degree evaluation with handwritten edits attached.  ✔ Yes   □ No

*Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  □ Yes   ✔ No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  □ Yes   □ No

9. If proposed changes affect other unit(s), are letters of support attached?  □ Yes   ✔ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho
[Signature]
10/15/15

Chair, College Review Committee
[Signature]
10-15-15

Dean of College
[Signature]
Date

Chair, GC or UCC
[Signature]
Date

Questions regarding this form should be directed to Curricular Services at 945-8201 or sandra.pwilliams@tamu.edu.
Curricular Services – 04/14

Received OCT 20 2015
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

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<tr>
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<th>BA MATH SYR</th>
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<th>Fall 2015 - College Station</th>
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<td>College Station</td>
<td>Evaluation Term :</td>
<td>Fall 2015 - College Station</td>
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<td>College :</td>
<td>Science</td>
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<td>Bachelor of Arts</td>
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<td>120.000</td>
<td>0.00</td>
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This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met

No AND A. Mathematics Rqmt I 4hrs
Take MATH 171.
Must make a grade of 'C' or better.

No AND B. Mathematics Rqmt II 4hrs
Take MATH 172.
Must make a grade of 'C' or better.

No AND C. Mathematics Rqmt III 4hrs
Take MATH 221.
Must make a grade of 'C' or better.

No AND D. MATH 220
Must make a grade of 'C' or better.

No AND E. MATH 323
Must make a grade of 'C' or better.

No AND F. MATH 506
Must make a grade of 'C' or better.

No AND G. MATH 409
Detail Requirements

No. AND H. Algebra 3hrs
   Select from MATH 415, 423, 433.

No. AND I. MATH/ENGR Elect 3hrs
   Select from CPSC 210-659; ISEN 405-459; MATH 403-470; STAT 407-415.

No. AND J. Undergraduate MATH Elect 3hrs
   Select from MATH 325, 403-505.
   Students seeking secondary certification must take MATH 403 and 467.

No. AND K. Graduate MATH Elect 6hrs
   Select from MATH 603-628, 630-639, 641-644, 647-684. This 6 hours will satisfy the requirement for both BA and MS degrees in Mathematics.

Total Credits and GPA 0.000

unofficial evaluation

Area: Supporting Coursework (7,000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No. AND A. STAT 211

No. AND B. Computer Science Rqmt 4hrs
   Select from CSCE 110, 114, 124, 206.

Total Credits and GPA 0.000

unofficial evaluation

Area: Communication (6,000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No. AND A. ENGL 104

No. AND B. Communication Rqmt 3hrs
   Select from COMM 203, 205 or 243.

Total Credits and GPA 0.000

unofficial evaluation

Area: Life and Physical Sciences (12,000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

No. AND A. PHYS 21R 4hrs

No. AND B. Science Rqmt 8hrs
   Select from ASTR 111; BIOL 111, 112, 133, 114; CHEM 101, 102, 103, 104, 111, 112, 133, 114.

Total Credits and GPA 0.000

unofficial evaluation
Area: Language, Philosophy & Culture (3.000 credits) - Not Met

Term Subject Course Title Attribute Credits Courses

No A. Language, Philosophy & Culture
Select from any 200-499 course with the [KLPC] attribute.

Total Credits and GPA 0.000

unofficial evaluation

Area: Creative Arts (3.000 credits) - Not Met

Term Subject Course Title Attribute Credits Courses

No A. Creative Arts Requirement
Select from any course with the Creative Arts attribute [KCREA].

Total Credits and GPA 0.000

unofficial evaluation

Area: Social and Behavioral Sciences (3.000 credits) - Not Met

Term Subject Course Title Attribute Credits Courses

No A. Social Science Reqmt 3hrs
Select from any course with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met

Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Term Subject Course Title Attribute Credits Courses

No A. American History Reqmt 6hrs
Select from any course with the [KHIS] attribute.

No AND B. Political Science Reqmt 6hrs
Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area: General Electives (35.000 credits) - Not Met

Term Subject Course Title Attribute Credits Courses

No A. General Electives 35hrs
Select any 100-499 course not used elsewhere: (except ALED 125; ASTR 109/119; KINE 199; MATH 309, 311, 367, 368, 375, 376; PHYS 109/119, 201, 202, 205; PSYC 203; SOMS 111, 180; STAT 201, 225, 301-303; STLC 102).
unofficial evaluation

<table>
<thead>
<tr>
<th>Area:</th>
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<td>Description:</td>
<td>See advisor for acceptable substitutions.</td>
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<td>No</td>
<td>A. Courses not applied</td>
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unofficial evaluation

<table>
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<tr>
<th>Area:</th>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Required Minor Minority requirement not needed if minor requirement is waived by the Dean's Office.</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area:</th>
<th>University Writing Requirement - Not Met</th>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
<td>No</td>
<td>A. Writing Requirement Two courses required. Only sections of MATH 100-499; PDDG 372; STAT 407; or UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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unofficial evaluation

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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSH 289 with the UWRT attribute).</td>
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unofficial evaluation

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<th>Area:</th>
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Total Credits and GPA 0.000
**CREDITS**

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<td>Complete one of the following:</td>
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<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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**unofficial evaluation**

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<td>Description :</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<td>A. Residence - Major 12hrs</td>
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<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
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**unofficial evaluation**

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<th>Area :</th>
<th>GPR-Major - Not Met</th>
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<td>Description :</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
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<th>Course Title</th>
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<th>Credits</th>
<th>Courses</th>
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</table>

**unofficial evaluation**

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN MATHEMATICS
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for:
   ☑ Degree Program  ☐ Minor  ☐ Certificate

3. Request submitted by (Department or Program Name): Department of Mathematics

Program Designation and Name
(e.g., B.A. in History, Minor in History, Certificate in European Union): B. S. in Mathematics

5. Brief description of change:
   *To change MATH electives Rule K to, "Select from MATH 325, 403-499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

7. a. Proposed curriculum attached. ☑ Yes  ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes  ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes  ☑ No
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐ Yes  ☑ No

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes  ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho
10/15/15

Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Dean of College  Date

Chair, GC & UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14

RECEIVED OCT 20 2015 CURRICULAR SERVICES
Detail Requirements

Information for Degree Evaluation

⚠️ This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 483 may be used in this degree program.

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<th>Catalog Term : Fall 2015 - College Station</th>
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<td>College :</td>
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Other Course Information

Transfer : 0.000 | 0

This is NOT an official evaluation.

Area : Major Coursework (45.000 credits) - Not Met

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<td>A. Mathematics Rqmt I 4hrs</td>
<td>Take MATH 171. Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND B. Mathematics Rqmt II 4hrs</td>
<td>Take MATH 172. Must make a grade of 'C' or better.</td>
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<td>AND C. Mathematics Rqmt III 4hrs</td>
<td>Take MATH 221. Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND D. MATH 220</td>
<td>Must make a grade of 'C' or better.</td>
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<td>No</td>
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<td>No</td>
<td>AND G. MATH 409</td>
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http://compass.sch.tamu.edu/ls/PROD/bwsk4app/2_Veri6DirEvalViewOption
Detail Requirements

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<th>MATH 415</th>
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<td>Principles of Analysis 3hrs</td>
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<td>Select from MATH 410, 446.</td>
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<td>No</td>
<td>AND</td>
<td>J.</td>
<td>MATH 416</td>
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<td>1. 3 hours must be selected from MATH 427, 431, 436, 439.</td>
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<td>2. 9 hours must be selected from MATH 325, 407-455.</td>
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unofficial evaluation

Area: Supporting Coursework (7,000 credits) - Not Met

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<td>Select from CSCE 110, 111, 121, 306.</td>
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<td>MATH 411 or STAT 414</td>
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unofficial evaluation

Area: Communication (6,000 credits) - Not Met

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<td>B.</td>
<td>Communication Rqmt 3hrs</td>
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<td>Select from COMM 203, 205, or 243.</td>
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unofficial evaluation

Area: Life and Physical Sciences (26,000 credits) - Not Met

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<td>PHYS 218 4hrs</td>
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<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Science Rqmt 4hrs</td>
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<td>Select from DCNG 451; PHYS 260.</td>
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<td>No</td>
<td>AND</td>
<td>C.</td>
<td>Science Rqmt 8hrs</td>
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<td>Select from ASTR 111; BIOL 111, 112; CHEM 101, 102, 103, 104, 111, 112, 113, 114.</td>
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<td>D.</td>
<td>Science Rqmt III 6hrs</td>
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<td>Select from BICH 401-489; BIOL 200-470; CHEM 222-474; GENE 301-452; OCNG 251-252, 401-420; PHYS 221, 302-305, 307-314, 324-428.</td>
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<td>E.</td>
<td>Science Rqmt IV 4hrs</td>
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<td>Select from ASTR 111; BICH 401-489; BIOL 111, 112. 200-</td>
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unofficial evaluation

### Area: Language, Philosophy & Culture (3.000 credits) - Not Met

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<td>Language</td>
<td>Philosophy &amp; Culture</td>
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<td>Select from any 200-499 course with the [KLPC] attribute.</td>
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unofficial evaluation

### Area: Creative Arts (3.000 credits) - Not Met

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<td>Creative Arts Requirement</td>
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<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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unofficial evaluation

### Area: Social and Behavioral Sciences (3.000 credits) - Not Met

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<td>No</td>
<td>A.</td>
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<td>Social Science Rqmt 3hrs</td>
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<td>Select from courses with the Social and Behavioral Science attribute [KSOE].</td>
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unofficial evaluation

### Area: Citizenship (12.000 credits) - Not Met

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<th>Subject</th>
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<td>American History Rqmt 6hrs</td>
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<td>Select from any course with the [KHIS] attribute.</td>
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<td>No</td>
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<td>Political Science Rqmt 6hrs</td>
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<td>Take POLS 206 and POLS 207.</td>
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unofficial evaluation
### General Electives (15.000 credits) - Not Met

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<th>General Electives 15hrs</th>
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<td>Select any 100-499 course not used elsewhere. (except ALED 125; ASTR 109/119; KINE 199; MATH 205, 311, 367-368, 375-376; PHYS 109/119, 201-202, 205; PSYC 203; SOMS 111, 180; STAT 201, 225, 301-303; STLC 102).</td>
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Total Credits and GPA: 0.000

### Work Not Applied - Met

#### Description:
See advisor for acceptable substitutions.

### University Writing Requirement - Not Met

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<td>Two courses required.</td>
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<td>Only sections of MATH 100-499; STAT 407; or UGSR 491 with the Writing attribute (UWRT) or the Oral Communication attribute (UCRT) may be used to satisfy this requirement.</td>
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Total Credits and GPA: 0.000

### Int'l & Cult Diversity - Not Met

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<th>Int'l &amp; Cultural Diversity 6hr</th>
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<tr>
<td></td>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute (UCID) (except sections of BUSN 289 with the UWRT attribute).</td>
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Total Credits and GPA: 0.000

### Foreign Language - Not Met

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<td>Complete one of the following:</td>
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<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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Total Credits and GPA: 0.000
2. A two semester sequence of the same foreign language for University credit.

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<th>Residence Requirement - Not Met</th>
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<tbody>
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<td>Description</td>
<td>A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&amp;M University. 12 hours must be in the major field.</td>
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<th>Rule</th>
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<td>AND</td>
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<td>Residence</td>
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<th>Area</th>
<th>GPR-Major - Not Met</th>
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<td>Description</td>
<td>A GPR of 2.00 must be maintained in all major field courses.</td>
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<td>A. Major</td>
<td>GPR 48+hrs</td>
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</table>

Includes MATH 151-499; STAT 407-415.

| Total Credits and GPA | 0.000 |

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Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN MATHEMATICS - 5-YEAR DEGREE PROGRAM
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   □ Undergraduate  □ Graduate  □ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for:
   □ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in Mathematics - 5 YR

5. Brief description of change:
   *To change MATH electives Rule L to, "Select from MATH 325, 403-499."

6. Rationale for change:
   *To include MATH 490, "Putnam Challenge" and MATH 491, "Research" as eligible Math elective courses.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. □ Yes □ No
   b. Current catalog curriculum with handwritten edits attached. □ Yes □ No
   c. Current Howdy degree evaluation with handwritten edits attached. □ Yes □ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes □ No
   b. If yes, degree program hours will change from: _______ to: _______
   c. If yes, is the Texas Higher Education Coordinating Board form attached?

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60
   □ Yes □ No

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

---

Approval recommended by:
Dr. Paulo Lima-Filho  10/15/15
Department Head or Program Chair (Type Name & Sign)

Date

Dean of College  Date

Chair, College Review Committee  10-15-15

Chair, GC of UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tc. Curricular Services – 04/14
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Maximum of 4 hours of CHEM 101, 103, 107, 111, 113 may be used in this degree program.

Limitation Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.

Limitation Maximum of 3 hours of MATH 485 may be used in this degree program.

<table>
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<th>BS MATH SYR</th>
<th>Catalog Term</th>
<th>Fall 2015 - College Station</th>
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<td>Degree</td>
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<tr>
<td>Program GPA</td>
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<tr>
<td>Overall GPA</td>
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<tr>
<td>Other Course Information</td>
<td>Transfer</td>
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</table>

This is NOT an official evaluation.

Area: Major coursework (45.000 credits) - Not Met

Met | Condition | Rule | Subject | Attribute | Low | High | Required | Required | Term | Subject | Course | Title | Attribute | Credits | Courses |
<table>
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<tbody>
<tr>
<td>No</td>
<td>A</td>
<td>Mathematics Rqm I 4hrs</td>
<td>Take MATH 171. Must make a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B</td>
<td>Mathematics Rqm II 4hrs</td>
<td>Take MATH 172. Must make a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>C</td>
<td>Mathematics Rqm III 4hrs</td>
<td>Take MATH 221. Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND</td>
<td>D</td>
<td>MATH 220</td>
<td>Must make a grade of 'C' or better.</td>
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<td>MATH 323</td>
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<td>F</td>
<td>MATH 308</td>
<td>Must make a grade of 'C' or better.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>G</td>
<td>MATH 409</td>
<td></td>
<td></td>
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</tbody>
</table>

https://compass.sch.tamu.edu/nls/PROD/hwckrann P VerifyDisnEvalViewOption 10/5/2015
No AND H. MATH 415
No AND I. Principles of Analysis 3hrs
   Select from MATH 410, 446.
No AND J. MATH 416
No AND K. MATH Elect I 3hrs
   Select from MATH 427, 431, 436, 439.
No AND L. MATH Elect II 3hrs
   Select from MATH 325, 407, 485.
No AND M. Graduate MATH Elect 6hrs
   Select from MATH 603-628, 630-639, 641, 644, 647-684.
   This 6 hours will satisfy the requirement for both BS and MS degrees in Mathematics.

Total Credits and GPA 0.000

unofficial evaluation

Area: Supporting Coursework (7.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Computer Science Rqmt 4hrs
   Select from CSCE 110, 111, 121, 206.
No AND B. MATH 411 or STAT 414

Total Credits and GPA 0.000

unofficial evaluation

Area: Communication (6.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. ENGL 104
No AND B. Communication Rqmt 3hrs
   Select from COMM 203, 205, or 243.

Total Credits and GPA 0.003

unofficial evaluation

Area: Life and Physical Sciences (26.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. PHYS 218 4hrs
No AND B. Science Rqmt 4hrs
   Select from OCSG 451; PHYS 208.
No AND C. Science Rqmt 8hrs
   Select from ASTR 111; BIOL 111, 112; CHEM 101, 102, 103, 104, 111, 112, 113, 114.
No AND D. Science Rqmt III 6hrs
   Select from BICH 401-489; BIOL 200-470; CHEM 222-274; GENE 301-452; OCSG 251-252, 401-420; PHYS 221, 302-

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>E. Science Rqmt IV 4hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from ASTR 111; BICH 401-489; BIOL 111, 112, 200-470, 318-438; CHEM 101-104, 111-114, 222-474; GENE 301-452; OCCN 251-252, 401-420; PHYS 221, 302-305, 307-314, 324-428.</td>
</tr>
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</table>

**Total Credits and GPA: 0.000**

unofficial evaluation

**Area: Language, Philosophy & Culture (3.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Language, Philosophy &amp; Culture</td>
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</tbody>
</table>

**Total Credits and GPA: 0.000**

unofficial evaluation

**Area: Creative Arts (3.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Creative Arts Requirement</td>
</tr>
</tbody>
</table>

**Total Credits and GPA: 0.000**

unofficial evaluation

**Area: Social and Behavioral Sciences (3.000 credits) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Social Science Rqmt 3hrs</td>
</tr>
</tbody>
</table>

**Total Credits and GPA: 0.003**

unofficial evaluation

**Area: Citizenship (12.000 credits) - Not Met**

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. American History Rqmt 6hrs</td>
</tr>
<tr>
<td>No</td>
<td>AND</td>
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</table>

**Total Credits and GPA: 0.000**
unofficial evaluation

<table>
<thead>
<tr>
<th>Area: General Electives (15.000 credits) - Not Met</th>
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</thead>
<tbody>
<tr>
<td><strong>Met</strong> Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
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Total Credits and GPA 0.000

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Work Not Applied - Met</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong>: See advisor for acceptable substitutions.</td>
</tr>
<tr>
<td><strong>Met</strong> Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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Total Credits and GPA

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: University Writing Requirement - Not Met</th>
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<tbody>
<tr>
<td><strong>Met</strong> Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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<tr>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Int'l &amp; Cult Diversity - Not Met</th>
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<tbody>
<tr>
<td><strong>Met</strong> Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

<table>
<thead>
<tr>
<th>Area: Foreign Language - Not Met</th>
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</thead>
<tbody>
<tr>
<td><strong>Met</strong> Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
</tbody>
</table>
No | A. Foreign Language Rqmt
    | Complete one of the following:
    | 1. Two years of the same foreign language in High School.
    | 2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000

unofficial evaluation

Area: Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

<table>
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<tr>
<th>Met</th>
<th>Condition</th>
<th>Subject</th>
<th>Attribute</th>
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<tr>
<td>No</td>
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<td>No</td>
<td>B. Residence 300-499 24hrs</td>
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</tbody>
</table>

Total Credits and GPA

unofficial evaluation

Area: GPR-Major - Not Met
Description: A GPR of 2.00 must be maintained in all major field courses.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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</table>
| No  | AND       | A. Major GPR 48-4 hrs

Includes MATH 151-489 (except MATH 166, 170), MATH 603-628, 630-639, 641-644, 647-684; STAT 407-415.

Total Credits and GPA

unofficial evaluation

Back to Display Options
6
Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN UNIVERSITY STUDIES - MATHEMATICS FOR BUSINESS CONCENTRATION
Texas A&M University
Request for a Change in Curriculum
Undergraduate ♦ Graduate ♦ Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:

3. Request submitted by (Department or Program Name):

   Department of Mathematics

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   B.S. in University Studies - Math for Business Concentration

5. Brief description of change:
   *To add MATH 251 as a required Area of Concentration course.
   *To decrease General Electives to 13 - 19 hours in order to maintain the 120 credit hour total.
   *To change the Language, Philosophy and Culture requirement to, "Select from any 200-499 course with the [KLPC] attribute."

6. Rationale for change:
   *MATH 251 is a prerequisite for MATH 308 and several upper-level MATH courses.
   *To make the LPC requirements the same as all other MATH degree plans.

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☑ Yes ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐ Yes ☑ No
   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-F11-2756AD39BBF01D60

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho
Department Head or Program Chair (Type Name & Sign) Date: 10/15/15

Chair, College Review Committee Date: 10/15/15

Dean of College Date: 10-16-15

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 04/14

RECEIVED CURRICULAR SERVICES OCT 20 2015
Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program : BS USSC-Math for Business
Campus : College Station
College : Science
Degree : Bachelor of Science
Level : Undergraduate
Majors : University Studies
Departments : College of Science
Catalog Term : Fall 2015 - College Station
Evaluation Term : Fall 2015 - College Station
Expected Graduation Date :
Request Number :
Results as of :
Minors :
Concentrations :

<table>
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<th>Met Credits</th>
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<td>Required</td>
<td>Used</td>
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<tr>
<td>Required</td>
<td>Used</td>
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</table>

Total Required : No 120.00 0.000 0
Program GPA : Yes .00 .00
Overall GPA : No 2.00 .00

Other Course Information
Transfer :

This is NOT an official evaluation.

Area : Concentration Field of Study ( 24,000 credits ) - Not Met

Met Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses

<table>
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<th>No</th>
<th>AND</th>
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<tr>
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<th>AND</th>
<th>H.</th>
<th>Linear Algebra 3hrs</th>
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<tbody>
<tr>
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<td>select from MATH 304, 323. Must make a grade of 'C' or better.</td>
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<table>
<thead>
<tr>
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<th>AND</th>
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<th>Math Models 3hrs</th>
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<tbody>
<tr>
<td></td>
<td>select from MATH 442; STAT 408.</td>
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</table>

unofficial evaluation

Total Credits and GPA 0.000

https://compass-shs.tamu.edu/lps/PROD/hwckcann0 P VerifDisnEvalViewOption 9/28/2015
Area: Communication (6,000 credits) - Not Met

<table>
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<th>ENCL 104</th>
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<td>AND</td>
<td>B.</td>
<td>Communication Elect 3hrs</td>
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<td></td>
<td>Select from COMM 203, 205, or 243.</td>
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Total Credits and GPA 0.000

unofficial evaluation

Area: Mathematics (8,000 credits) - Not Met

<table>
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<tr>
<th>No</th>
<th>A.</th>
<th>MATH Rqmt I 4hrs</th>
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<tr>
<td></td>
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<td>Select from HATH 151, 171. Must make a grade of 'C' or better.</td>
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<tr>
<td>AND</td>
<td>B.</td>
<td>MATH Rqmt II 4hrs</td>
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<tr>
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<td></td>
<td>Select from HATH 152, 172. Must make a grade of 'C' or better.</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Life and Physical Sciences (9,000 credits) - Not Met

<table>
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<th>No</th>
<th>A.</th>
<th>Life/Physical Sciences 9hrs</th>
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<tr>
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<td></td>
<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].</td>
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</table>

Total Credits and GPA 0.000

unofficial evaluation

Area: Language, Philosophy & Culture (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Language, Philosophy &amp; Culture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Select from any Language, Philosophy and Culture [KLPC] course with an ENCL prefix.</td>
</tr>
</tbody>
</table>

Select from any 200-499 course with the [KLPC] attribute. Total Credits and GPA 0.000

unofficial evaluation

Area: Creative Arts (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Creative Arts Requirement</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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</table>
unofficial evaluation

Area: Social and Behavioral Sciences (3,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Social Science Rqmt 3hrs</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the Social and Behavioral Science attribute [KGOC].</td>
</tr>
<tr>
<td></td>
<td>Total Credits and GPA 0.000</td>
</tr>
</tbody>
</table>

unofficial evaluation

Area: Citizenship (12,000 credits) - Not Met

Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. American History Rqmt 6hrs</td>
</tr>
<tr>
<td></td>
<td>Select from any course with the [KHS] attribute.</td>
</tr>
<tr>
<td></td>
<td>Total Credits and GPA</td>
</tr>
</tbody>
</table>

| No  | AND B. Political Science Rqmt 6hrs  |
|  | Take POLS 206 and POLS 207. |

unofficial evaluation

Area: General Electives (52,000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. General Electives 5hrs</td>
</tr>
<tr>
<td></td>
<td>Includes 30-36 hours of courses that were used to satisfy the two minor requirements and 16-22 hours of 100-499 courses not used elsewhere.</td>
</tr>
<tr>
<td></td>
<td>Total Credits and GPA 0.000</td>
</tr>
</tbody>
</table>

unofficial evaluation

Area: Work Not Applied - Met

Description: See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
</tr>
<tr>
<td></td>
<td>Total Credits and GPA</td>
</tr>
</tbody>
</table>

unofficial evaluation
**Area: University Studies Minor Reqmt - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A. Required Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Minor</td>
</tr>
<tr>
<td></td>
<td>Two university approved minors are required for this degree program. This area ensures completion of minors and will be removed once an application for degree has been submitted.</td>
</tr>
</tbody>
</table>

**Unofficial Evaluation**

**Total Credits and GPA: 0.000**

---

**Area: University Writing Requirement - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A. Writing Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Writing Requirement</td>
</tr>
<tr>
<td></td>
<td>Two courses required. Only sections 100-499 courses with the Writing attribute [UWRT] or Communication attribute [UCRT] may be used to satisfy this requirement.</td>
</tr>
</tbody>
</table>

**Unofficial Evaluation**

**Total Credits and GPA: 0.000**

---

**Area: Int'l & Cult Diversity - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A. Int'l &amp; Cultural Diversity 6hr</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
</tr>
<tr>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICID] (except sections of BUSN 215 with the UWRT attribute).</td>
</tr>
</tbody>
</table>

**Unofficial Evaluation**

**Total Credits and GPA: 0.000**

---

**Area: Foreign Language - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A. Foreign Language Reqmt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foreign Language Reqmt</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
</tr>
</tbody>
</table>

**Unofficial Evaluation**

**Total Credits and GPA: 0.000**

---

**Area: Residence Requirement - Not Met**

<table>
<thead>
<tr>
<th>No</th>
<th>A. Residence - Major 12hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residence - Major 12hrs</td>
</tr>
</tbody>
</table>

**Detail Requirements**

Includes MATH 304, 308, 325, 425, 442; STAT 408. Must be taken in residence at Texas A&M University.

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>B. Residence 300-499 24hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Includes any 300-499 taken in residence at Texas A&amp;M University.</td>
</tr>
</tbody>
</table>

Total Credits and GPA

unofficial evaluation

**Area:** GPR-Major - Not Met

**Description:** A GPR of 2.00 must be maintained in all major field courses.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Subject Attribute</th>
<th>Low High</th>
<th>Required</th>
<th>Required Term Subject Course Title Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Major GPR 24+hrs</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Includes MATH 220, 304, 308, 323, 325, 425, 442; STAT 211-212, 408.

Total Credits and GPA

unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS
BS IN UNIVERSITY STUDIES - MATHEMATICS FOR PRE-PROFESSIONALS
CONCENTRATION
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate  □ Graduate  □ First Professional (ex., DVM, JD, MD, etc.)

2. Request change for: ☑ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Program Designation and Name: Department of Mathematics
   (e.g., B.A. in History, Minor in History, Certificate in European Union): B. S. in University Studies - Math for Pre-Professionals Concentration

4. Brief description of change:
   * To add MATH 251 as a required Area of Concentration course.
   * To decrease General Electives to 16-22 hours in order to maintain the 120 credit hour total.
   * To change the Language, Philosophy and Culture requirement to, "Select from any 200-499 course with the [KLPC] attribute."

5. Rationale for change:
   * MATH 251 is a prerequisite for MATH 308 and several upper-level MATH courses.
   * To make the LPC requirements the same as all other MATH degree plans.

6. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached. ☑ Yes  □ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes  □ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes  □ No
      Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

7. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes  ☑ No
   b. If yes, degree program hours will change from: _________ to: _________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? □ Yes  ☑ No
      [Link: http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60]

8. If proposed changes affect other unit(s), are letters of support attached? □ Yes  ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Dr. Paulo Lima-Filho 10/15/15

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee 10-15-15

Dean of College Date

Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14

Received Oct 20 2015
Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

<table>
<thead>
<tr>
<th>Program</th>
<th>BS USSC-Math for Pre-Prof</th>
<th>Catalog Term</th>
<th>Fall 2015 - College Station</th>
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<tbody>
<tr>
<td>Campus</td>
<td>College Station</td>
<td>Evaluation Term</td>
<td>Fall 2015 - College Station</td>
</tr>
<tr>
<td>College</td>
<td>Science</td>
<td>Expected Graduation Date</td>
<td></td>
</tr>
<tr>
<td>Degree</td>
<td>Bachelor of Science</td>
<td>Request Number</td>
<td>0</td>
</tr>
<tr>
<td>Level</td>
<td>Undergraduate</td>
<td>Results as of</td>
<td>Sep 28, 2015</td>
</tr>
<tr>
<td>Majors</td>
<td>University Studies</td>
<td>Minors</td>
<td></td>
</tr>
<tr>
<td>Departments</td>
<td>College of Science</td>
<td>Concentrations</td>
<td></td>
</tr>
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<table>
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<tr>
<th></th>
<th>Required</th>
<th>Used</th>
<th>Required</th>
<th>Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Required</td>
<td>No</td>
<td>120.00</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Program GPA</td>
<td>Yes</td>
<td>.00</td>
<td>.00</td>
<td></td>
</tr>
<tr>
<td>Overall GPA</td>
<td>No</td>
<td>2.00</td>
<td>.00</td>
<td></td>
</tr>
<tr>
<td>Other Course Information</td>
<td>0.00</td>
<td>0</td>
<td></td>
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</table>

This is NOT an official evaluation.

Area: Concentration Field of Study (32.000 credits) - Not Met

<table>
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<th>No</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Term</th>
<th>Subject Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

unofficial evaluation

Area: Communication (6.000 credits) - Not Met
### Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Credits</th>
<th>Attributes</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENGL 104</td>
<td></td>
<td>A</td>
<td>Communication Elect 3hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Must select from COMM 203, 205, or 243.</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

### Mathematics (8.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Credits</th>
<th>Attributes</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>MATH Rqmt I 4hrs</td>
<td></td>
<td>A</td>
<td>Select from MATH 151, 171. Must make a grade of 'C' or better.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MATH Rqmt II 4hrs</td>
<td></td>
<td>B</td>
<td>Select from MATH 152, 172. Must make a grade of 'C' or better.</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

### Life and Physical Sciences (9.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Credits</th>
<th>Attributes</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Life/Physical Sciences 9hrs</td>
<td></td>
<td>A</td>
<td>Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

### Language, Philosophy & Culture (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Credits</th>
<th>Attributes</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Language, Philosophy &amp; Culture</td>
<td></td>
<td>A</td>
<td>Select from any Language, Philosophy, and Culture [KLPC] course with the KLPC attribute.</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000

### Creative Arts (3.000 credits) - Not Met

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Credits</th>
<th>Attributes</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Creative Arts Requirement</td>
<td></td>
<td>A</td>
<td>Select three hours from any course with the Creative Arts attribute [ACRA].</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 0.000
unofficial evaluation

Area: Social and Behavioral Sciences (3.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Social Science Rqmt 3hrs Select from courses with the Social and Behavioral Science attribute (KSOC).

Total Credits and GPA 0.000

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. American History Rqmt 5hrs Select from any course with the [KHS] attribute.
No AND B. Political Science Rqmt 5hrs Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area: General Electives (95.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. General Electives 55hrs Includes 30-36 hours of courses that were used to satisfy the two minor requirements and 19-25 hours of 100-499 courses not used elsewhere.

Total Credits and GPA 0.000

unofficial evaluation

Area: Work Not Applied - Met
Description: See advisor for acceptable substitutions.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses
No A. Courses not applied

Total Credits and GPA

unofficial evaluation

Area: University Studies Minor Rqmt - Not Met
| Area: University Writing Requirement - Not Met |
|---|---|---|---|---|---|---|
| Met | Condition Rule | Subject Attribute | Low High Required | Required Term | Subject Course | Title Attribute | Credits | Courses |
| No | | | | | | | | |
| A | Writing Requirement | | | | | | | |
| | | | | | | | | |
| Total Credits and GPA | 0.000 |

unofficial evaluation

| Area: Int'l, Cult Diversity - Not Met |
|---|---|---|---|---|---|---|
| Met | Condition Rule | Subject Attribute | Low High Required | Required Term | Subject Course | Title Attribute | Credits | Courses |
| No | | | | | | | | |
| A | Int'l & Cultural Diversity 6hr | | | | | | | |
| | | | | | | | | |
| Total Credits and GPA | 0.000 |

unofficial evaluation

| Area: Foreign Language - Not Met |
|---|---|---|---|---|---|---|
| Met | Condition Rule | Subject Attribute | Low High Required | Required Term | Subject Course | Title Attribute | Credits | Courses |
| No | | | | | | | | |
| A | Foreign Language Reqmt | | | | | | | |
| | | | | | | | | |
| Total Credits and GPA | 0.000 |

unofficial evaluation

| Area: Residence Requirement - Not Met |
|---|---|---|---|---|---|---|
| Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field |
| Met | Condition Rule | Subject Attribute | Low High Required | Required Term | Subject Course | Title Attribute | Credits | Courses |
| No | | | | | | | | |
| A | Residence - Major 12hrs | | | | | | | |
| | | | | | | | | |
| Total Credits and GPA | 0.000 |

unofficial evaluation
B. Residence 300-499 24hrs
   Includes any 300-499 taken in residence at Texas A&M University.

unofficial evaluation

Area: GPR-Major - Not Met
Description: A GPR of 2.00 must be maintained in all major field courses.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Major GPR 11+hrs</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Includes MATH 220, 304, 308, 323, 400-499 (except MATH 401, 403, 433); STAT 414.</td>
<td></td>
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</tr>
</tbody>
</table>

unofficial evaluation

Back to Display Options

Print
TAMUG
NEW COURSES
Texas A&M University
Departmental Request for a New Course
Undergraduate  Graduate  Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:
   - Undergraduate  Graduate  First Professional (EDS, MO, JD, Ph.D., DVM)
2. Request submitted by (Department or Program Name):
   Department of Maritime Administration
   MARA 475 Business Leadership
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Focus on theory and practice of leadership; familiarize with components, theory and models of leadership; compare/contrast styles; review leadership/followership relationship as a collaborative activity resulting in achieved goals; analyze cultural and global components and ethical issues associated with leadership.

5. Prerequisite(s):
   - Junior/senior status or instructor approval
   Cross-listed with:
   Stacked with:
   [Cross-listed courses require the signature of both department heads.]

6. Is this a variable credit course?  No  If yes, from ______ to ______
7. Is this a repeatable course?  No  If yes, this course may be taken ______ times.
   Will this course be repeated within the same semester?  No

8. Will this course be submitted to the Core Curriculum Council?  No
9. How will this course be graded?  Grade  S/U  P/F (CLMO)
10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)
      BS Maritime Administration and Master of Maritime Administration and Logistics

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.
12. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control-basics-for-distance-education).

13. Title: Course #  Credit (including prerequisites)

<table>
<thead>
<tr>
<th>Title</th>
<th>Course #</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARA</td>
<td>475</td>
<td>Business Leadership</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab.</td>
<td>Other</td>
</tr>
<tr>
<td>3.00</td>
<td>0.00</td>
<td>3.00</td>
</tr>
<tr>
<td>6211010016</td>
<td>1814</td>
<td>16 - 17 0 1 0 2 3 9 8</td>
</tr>
</tbody>
</table>

Approval recommended by:

[Signatures]

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 07/14
TEXAS A&M UNIVERSITY AT GALVESTON
Department of Maritime Administration

Maritime Administration (MARA) 475- Business Leadership

Spring 2016 Intercessional

Instructor – Steven M. Conway – conwaya@tamu.edu  call – 409-939-4714
Meeting Times: Online
Texts: Northouse: Introduction to Leadership 3e + Northouse: Introduction to Leadership
3e Interactive EBook – Peter G. Northouse ISBN: 9781483316659

COURSE DESCRIPTION:
Focus on the theory and practice of leadership. Familiarity with the components of
leadership, leadership theory and leadership models. Compare and contrast various
leadership styles. Review leadership/followership relationship as a collaborative activity
in which those who lead and those who follow work together to achieve goals. Analyze
the cultural and global components of leadership and ethical issues associated with
leadership. Prerequisites: Junior or Senior Classification or approval of the instructor.

COURSE OBJECTIVE:
In studying leadership theory, one must realize that there is a difference between
socialization of a leader and leadership theory education. Many successful leaders obtain
their leadership skills from practice; in other words, they are socialized into leadership as
they have learned from their experiences. However the most successful leaders have
studied the scholarly discipline of leadership theory and then honed their skills in practice
under the watchful eye of a wise mentor.

FULLY ONLINE SECTION:
The fully online section of MARA Leadership Course takes the same amount of time and
effort as any other 3 credit course. It is different in that more of the material is presented
via readings and less orally, it obviously requires that you spend more time online using
the Blackboard learning management system. It requires more discipline on the part of
the student because while there are still regular deadlines there is no regular class meeting
to remind you of these deadlines. The weighting of the assignments is different reflecting
the different process used in an online course. It is CRITICAL that you manage your time
well and don’t get behind.
LEARNING OUTCOMES:

1. Identify and describe major leadership theories and the researchers associated with those theories;
2. Describe the behaviors of effective leaders in a variety of situations;
3. Explain followership and the relationship linkage between followers and leaders;
4. Discover the personal, behavioral and situational factors in a leadership situation that lead to success or failure;
5. Use self-assessment tools to evaluate their own level of leadership development and assess their own individual skills, personality dimensions and management competencies;
6. Describe differences in leadership due to cultural and global influences;
7. Describe the options for actions and consequences of those actions in an ethical situation in leadership

This course is being supported by the Blackboard learning management system.

GRADING SCHEME:
Online activities and Reading quizzes 60%
Leadership Paper 20%
Final Exam 20%

Grade Structure:
90-100 A
80-89 B
70-79 C
60-69 D
< 60 F

Office Hours: NA. Contact is via email, text or phone
Phone: Cell Phone: (409) 939-4714 (if I don’t answer leave a message and a number and I will return your call)
E-mail: convays@lamug.edu or stevenisretired@gmail.com

TEACHING STRATEGIES
Active student focused online learning with students actively engaged in the learning process by doing problems and exercises or participating in discussions online will be emphasized throughout this course. The course is divided into modules; typically a module may include a brief introductory video/PowerPoint, textbook and online readings, activities such as homework or online discussions, video clips demonstrating leadership concepts, online quizzes over the reading material covered and a PowerPoint of a relevant rule of thumb for that module.
CONTACTING YOU
The department and I will use your University E-mail address. Please check your E-mail account several times a week. Please be aware that forwarding of messages from your Google email account may be restricted and that you make have to check your Google email account to receive all messages.

COURSE SCHEDULE

Introduction Module — Due Midnight Fri 5 June

Module 1—Understanding leadership and your leadership traits. Due Midnight Thurs 11 June 2015

Module 2—Followership and engaging people’s strengths. Due Midnight Sun 14 June 2015

Module 3—Leadership Philosophy and Styles. Due Midnight Thurs 18 June 2015

Leadership Paper. Due Midnight Sun 21 June


Module 5—Creating a Climate and Dealing with Conflict. Due Midnight Sun 28 June

Module 6—Ethical Issues in Leadership. Due Midnight Friday 3 July

Final — 8am Sat 4 July through Midnight Mon 6 July 2015

ASSESSMENTS

Online Reading Quizzes — There will be quizzes over assigned textbook and online readings. The purpose of these quizzes over the assigned readings is to ensure that you read the assigned readings. You will normally not be allowed to complete these quizzes after the deadline for the completion of the module where the reading is assigned. These quizzes are 10 points each.

Leadership Paper — A two page leadership paper will be assigned.

Final — The format for this online test will be a combination of multiple choice, true/false and short answer.
COURSE DEADLINES
There are deadlines to complete each course module. Normally after the module deadline you will be unable to access the module materials; you will receive grades only on material completed prior to the deadline. Since the majority of the grade is from the readings and assignments completing the material on time is critical to successfully completing the course with a good grade. If you have a lengthy situation resulting in you being unable to complete online work by the module deadlines please contact the instructor as soon as possible. I strongly suggest not leaving work until the last minute since completion of your work may take longer than you anticipate. Since the system logs activity it is clear when you have put off the work until the last minute. Minor short term problems at the last minute are not excuses for late completion of the modules.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT
The Americans with Disabilities Act, (ADA), is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, the legislation requires that all students be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call 409.740.4587. For additional information visit http://www.tamug.edu/counsel/disabilities.html

COURSE ACCOMMODATIONS:
As a longtime teacher, I believe that all students have different ways of learning and face different issues that might interfere with their learning. If you have a documented disability, I sincerely encourage you to visit with the Counseling office as soon as possible AND to let me know that you are having this discussion. My experience has been that there are many issues that a student can have that can interfere with their successfully completing a course. I will do my best within the parameters of this course to provide you with tools or methods appropriate to your learning needs and any issues you face. I encourage you to contact me with any disability or other issue that you think might interfere with your ability to complete any course requirements. The earlier we can address these issues the more chance you have of success.

ACADEMIC INTEGRITY STATEMENTS
AGGIE HONOR CODE “An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMUG community from the requirements or the processes of the Honor System. For more information you can review the Honor Council Rules and Procedures on the web:
http://www.tamug.edu/HonorSystem.
COLLABORATION:
During this class you will be assigned activities with different amounts of collaboration allowed. Exceeding the allowed amount of collaboration is considered cheating. These range from:

- Final – This is an online tests and you may review course materials but all work must be yours and yours alone, you are not allowed communicate with anyone else during the test. Blackboard has extensive logging of all activity including materials accessed, time accessed and the unique id of the computer used. Logs are routinely reviewed after tests. Any evidence of collaboration will be investigated as cheating.
- Online Quizzes – No collaboration or use of other online material is allowed.
- Homework Assignment– If you have difficulties you are allowed to discuss how to do the problems with your classmates but you must do all the work yourself and the answers you turn in must be your work. Copying and turning in a classmate’s homework answers is cheating.

STATEMENT ON COURSE EVALUATIONS
The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at http://pica.tamu.edu, your howdy portal, or by scanning

STATEMENT ON ABSENCES
Information concerning absences long enough to interfere with completing a module is contained in the University Student Rules Section 7 http://www.tamu.edu/stulife/Academic%20Rules/Rule%207.pdf The University views timely completion of online materials as an individual student responsibility. All students are expected to complete all assignments on time. If you notify me of any excused absences which require a delay in completing assignments, I will accommodate them through mutual agreement. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

STATEMENT ON THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)
FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office.
Items that can never be identified as public information are a student's social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

Form Instructions
2. Request submitted by (Department or Program Name): Department of Marine Biology
3. Course prefix, number and complete title of course: MARB 406: Life in Extreme Environments
4. Catalog course description (not to exceed 50 words):
   Key metabolic and physiological innovations of extremophile organisms; topics include the molecular biology, biochemistry and physiology of organisms living in extreme environments.

5. Prerequisite(s): MARB 315; CHEM 228; Junior or Senior Classification or approval of instructor
   Cross-listed with: 
   Stacked with:

6. Is this a variable credit course? ☐ Yes ☑ No If yes, from _____ to _____
7. Is this a repeatable course? ☐ Yes ☑ No If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester? ☐ Yes ☑ No
8. Will this course be submitted to the Core Curriculum Council? ☐ Yes ☑ No
9. How will this course be graded: ☑ Grade ☐ S/U ☐ P/F (CLAS)

This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.S. in Marine Biology, B.S. in Marine Fisheries

If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vir.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)

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Level: 4

Approved recommended by:

Chair, College Review Committee Date 10-19-15

Department Head or Program Chair (Type Name & Sign) Date

Train of College Date 10-19-15

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 07/14
Course title and number: MARB 406 – Life in Extreme Environments
Term: Spring 2017
Meeting times and location: Time: MWF, 12:00pm – 12:50 pm. Location: CLB 212.

COURSE DESCRIPTION: MARB 406 (3-0). 3 Credits.
This course presents the key metabolic and physiological innovations of extremophile organisms. Topics include the molecular biology, biochemistry and physiology of organisms living in extreme environments.

Life in Extreme Environments is the study of how various organisms have adapted to and thrive in so called ‘extreme’ environments. This course will provide a comprehensive understanding of the biochemical and physiological adaptations of extremophile organisms. Key concepts covered will include: the types of extreme environments, extremophile metabolism and physiology, along with an overview of how changing environmental conditions can impact the adaptive capabilities of threatened species.

PREREQUISITES:
• MARB 315, CHEM 228, Junior or Senior Classification (or approval of Instructor).

LEARNING OUTCOMES:
Upon successful completion of this course, students will be able to:

• OUTLINE key biochemical principles.
• IDENTIFY the biological mechanisms responsible for adaptive success in extreme environments.
• RECOGNIZE the interaction between changing environmental conditions and species survival success.

INSTRUCTOR INFORMATION:
Name: Dr. David Haia
Telephone number: 409-740-4535
Email address: halad@tamug.edu
Office hours: Monday 9-11 am; Wednesday 3-5 pm or by appointment
Office location: OCSB 266

TEXTBOOK AND RESOURCE MATERIAL (OPTIONAL):
"Life at Extremes: Environments, Organisms and Strategies for Survival" edited by Elanor M. Bell.
"Physiology and Biochemistry of Extremophiles" edited by Charles Gerday and Nicolas Glansdorff.
GRADING:

90-100% = A  
80 - 89% = B  
70 - 79% = C  
60 - 69% = D  
<60% = F

COMPONENTS OF GRADE:

<table>
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<tr>
<td>Semester Exams (2)</td>
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<td>Final Exam</td>
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CLASS LECTURE SCHEDULE:

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<tr>
<td>WEEK 1: COURSE INTRODUCTION</td>
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<td>WEEK 2: KEY CONCEPTS IN CHEMISTRY/BIOLOGY</td>
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<td>WEEK 3: RARE EARTH – THE UNEQUENESS OF LIFE ON EARTH</td>
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<td>WEEK 4: EXTREMOPHILES AND THE ORIGIN OF LIFE</td>
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<td>WEEK 5: THERMOPHILES AND THEIR ADAPTATIONS</td>
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<td>SEMESTER EXAM 1 (30%)</td>
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<td>WEEK 6: PSYCHOPHILES AND THEIR ADAPTATIONS</td>
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<td>WEEK 7: HALOPHILES AND THEIR ADAPTATIONS</td>
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<td>WEEK 8: ACIDOPHILES AND THEIR ADAPTATIONS</td>
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<td>WEEK 9: ADAPTATIONS TO HYPOXIA</td>
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<td>SEMESTER EXAM 2 (30%)</td>
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<td>WEEK 10: ADAPTATIONS IN ISOLATED ENVIRONMENTS (SUB-GLACIAL LAKES AND HYDROTHERMAL VENTS)</td>
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<td>WEEK 11: NOVEL ADAPTATIONS IN THE ANTHROPOCENE</td>
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<tr>
<td>WEEK 12: BIOTECHNOLOGICAL APPLICATIONS OF EXTREMOPHILES</td>
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<tr>
<td>WEEK 13: EXOBIOLOGY AND THE SEARCH FOR LIFE IN THE UNIVERSE</td>
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<tr>
<td>WEEK 14: COURSE OVERVIEW AND FINAL EXAM REVIEW</td>
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<td>WEEK 15: FINAL EXAM (40%)</td>
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*Syllabus is subject to change.*
EXAMS: There will be 2 semester exams and 1 final exam each worth 100 points. All exams are in-class, closed book and must be done independently. No electronic devices will be allowed to be out during the exam. Exams are not cumulative and may contain true/false, multiple choice, short and/or essay questions. Students will have the entire class time to complete an exam. Each question will exhibit points awarded towards exam total. Students may ask for clarification of exam questions from the exam proctor but may not ask for help getting the answer.

MAKE UP POLICY: If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://www.tamu.edu/stulife/Academic%20Rules/Rule%207.pdf). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class for which a University excused absence has been issued by the Vice President for Academic Affairs.
2) Death or major illness in a student’s immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day, NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days: Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence: (i) Texas A&M University Explanatory Statement for Absence from Class form available at http://www.tamu.edu/stulife/Absence%20Statement.pdf or (ii) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

ATTENDANCE/PARTICIPATION: To successfully complete this course, you should attend all lectures. The textbook covers advanced topics and hence lectures will interpret and synthesize topics presented in the text. In order to obtain a full comprehension of course materials you are encouraged to read the material before coming to class. If a student misses a class, it is the student's responsibility to obtain lecture notes and material from classmates.

ABSENCES: Information concerning absences can be found in the University Student rules Section 7: (http://www.tamu.edu/stulife/Academic_Rules/7_Attendance.html). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments/exams. For a University excused absence, the student should contact the Counseling Office to request a letter for the instructor stating the student's absence as excused. Please consult the University Student rules for reasons for excused absences, detailed procedures and deadlines.

INDEPENDENCE, APPROPRIATE REFERENCES AND THEIR CITATION: All aspects of the course
must be done independently and NOT as team efforts except where specifically requested by the course teachers. All perceived copying or sharing will be penalized by subtraction of that part of the assignment from the final grade. Plagiarism can include but is not limited to:

- Steal and pass off (the ideas or words of another) as one’s own.
- To use (another’s production) without crediting the source.
- To commit literary theft.
- To present as new and original an idea or product derived from an existing source.

CLASSROOM BEHAVIOR: The TAMUG Academic Rule 21 states “Texas A&M University supports the principle of freedom of expression for both instructors and students. The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. Classroom behavior that seriously interferes with either (1) the instructor’s ability to conduct the class or (2) the ability of other students to profit from the instructional program will not be tolerated. And individual engaging in disruptive classroom behavior may be subject to “disciplinary action”. Limit private conversations, use of electronic devices, or anything that could distract the instructor or other students. If you have business to conduct, quietly leave the room. See [http://www.tamu.edu/stulife/Academic%20Rules/Rule%2021.pdf](http://www.tamu.edu/stulife/Academic%20Rules/Rule%2021.pdf) for more information.

AGGIE CODE OF HONOR AND ACADEMIC INTEGRITY: For many years Aggies have followed a code of Honor, which is stated in this very simple verse:

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. This code also applies in the classroom. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. The Aggie code of honor and the scholastic dishonesty section in the TAMUG University Rules will be the standard upon which scholastic integrity is maintained in MARB 408. Refer to the Honor Council Rules and Procedures at [http://www.tamu.edu/ HonorSystem](http://www.tamu.edu/ HonorSystem).

AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409) 740-4587. For additional information visit [http://www.tamu.edu/counsel/Disabilities.html](http://www.tamu.edu/counsel/Disabilities.html).

STATEMENT ON THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA): FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

STATEMENT ON COURSE EVALUATIONS: The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at [http://pica.tamu.edu](http://pica.tamu.edu) or your Howdy portal.
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus*

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Marine Sciences
3. Course prefix, number and complete title of course: MARS 252 Introductory Marine Sciences Laboratory
4. Catalog course description (not to exceed 50 words):
An overview of the global ocean environment and the interrelated sub-disciplines; the importance of the ocean for the earth's ecosystems and human impact on the ocean; field work and boat trip, water and benthic sediment collection and analysis; navigation chart work.

5. Prerequisite(s): Completion of or concurrent enrollment in CENG 251 required
Cross-listed with:

6. Is this a variable credit course? ☐ Yes ☑ No
If yes, from _____ to _____
7. Is this a repeatable course? ☐ Yes ☑ No
If yes, this course may be taken _____ times.
Will this course be repeated within the same semester? ☐ Yes ☐ No
Will this course be submitted to the Core Curriculum Council? ☐ Yes ☐ No
9. How will this course be graded? ☑ Grade ☐ S/U ☐ P/F (CLAD)
10. This course will be:
a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   Marine Sciences, Ocean and Coastal Resources, Marine Fisheries
b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
   Marine Biology

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with those departments. Attach approval letters.

12. ☒ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://www.tamu.edu/courses/export-control-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)
MARS 252 Intro Marine Sciences Lab

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Approval recommended by:

[Signature]

Department of or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu.
Curricular Services – 07/14
MARS 252 Introductory Marine Science Laboratory

Syllabus and Schedule

Fall 2016
Lab will meet in SAGC Rm. 405
Time TBA
Instructors: Charlie Coleman (Instructional Assistant Professor)
Office: SAGC 701; Office Hours: call or email for an appointment
Office Phone: (409)740-4516
Hm. Phone: (409)737-2942
E-mail colemanc@tamug.edu

Lab Manual: Required*** must have for first lab***
Introductory Oceanography Laboratory Manual
Franz E. Anderson (3rd edition)

Course Description and Prerequisites

An overview of the global ocean environment and the interrelated sub-disciplines; the importance of the ocean for the earth’s ecosystems and human impact on the ocean; Field work and boat trip, water and benthic sediment collection and analysis; navigation chart work.

The course is a 3 hour lab based overview of the global ocean environment looking at how the many sub-disciplines interrelate, so that students understand the importance of the ocean for the earth’s collective ecosystems and how they themselves impact the ocean.

This lab is a science major level course designed to prepare students for their upper level science major courses. Some outside of class time work will be required. Some field work for collecting specimens to be used in lab will be required, as well as an end of semester 3 hour boat trip where students will need to show proficiency in water collection and analyses, benthic bottom sediment collection and analyses and some navigation chart work.

Prerequisite: Completion of or concurrent registration in OCNG 251 is required.

Course Objectives

To recognize and evaluate how Oceanography is an inter-disciplinary synergy of Geology-Physics-Chemistry-Biology. Its apparent complexity is an illusion once you understand how all the separate parts work together as a whole. This then leads to an appraisal of the ocean’s role in all of earth’s environments and should encourage students to have better stewardship of their world now and into the future.

*Students demonstrate teamwork skills working in ~4 person groups to obtain basic data.

*The experiments and supplemental work are designed to allow the students to speculate how to alter the experiments parameters to achieve more useful data. Empirical and quantitative skills will be developed taking raw data and comparing observed values to what was theoretically predicted from empirical formula. Calculating results and assessing possible errors will illustrate possible limitations in experiments and how to possibly modify them.

*Critical thinking skills will be developed as data and calculations are used to draw conclusions and answer cause and effect type questions.
Communication skills will be developed, as it will be necessary to come up with a plan of attack to get the best data possible in the time permitted. If the best data is not the result, group discussion skills will be needed to find problems in methodology.

The above will be assessed in the grading and subsequent discussion of grade each week. The end of semester Boat Trip and take home final will require students to use all the above skills to integrate and inter-relate totality of semester material and how the many sub-disciplines have to be viewed as a whole.

Learning Outcomes

Upon completion of this course, the student is expected to be knowledgeable in the following specific areas and be able to:

1. Describe how the earth became so irregular in elevation with respect to mountain highs and ocean basin lows under the influences of isostasy given the chemistry and densities of the ocean crust versus continental crust.
2. Illustrate how acoustic techniques are used to sound the depths and even the stratigraphy beneath, as well as the skills needed to interpret contours as to structure and ocean processes.
3. Discuss how the erosion of continents with their granitic composition, supply the sediment and chemistry to the ocean and relate this to the idea the ocean is in chemical equilibrium.
4. Assess the accuracy and precision of different methods for measuring salinity, as well as explain how some could not be used in different environmental applications.
5. Relate the physical factors affecting seawater density to what drives the thermo-haline circulation of water masses and how each ocean basin came to have its own distinct water mass layering with depth and latitude.
6. Describe the formation, classification and energy of ocean waves and how these become the coastal processes that form or destroy such features as Barrier Islands.
7. Demonstrate the basic principles of navigation, the reading of Mercator Projection Maps and how to use the tools of the trade like sextants, compass, triangles or parallel rulers.
8. Explain why ocean life can be divided into Planktonic, Nektontic and Benthic Communities and how these Communities are organized and influenced by the geology-chemistry-physics. Show the immense variety of habitat of our ocean world is a result of the synergy of these influences.

Grading Policies

Lab Exercises 80%
Quizzes 10%
Lab Final 7%
Lab Etiquette and Instructor Evaluation 3%
100%

grading scale (A=90-100, B=80-89, C=70-80, D=60-70, F=< 60)

Hints and Sage Advice:

Students must show up on time. Turn in your previous week’s lab report first thing. It must have your name, section and group number. At the start of the hour students take their 10 point quiz over the lab being covered that day. A lecture over the lab and techniques is given. The Lab section is 2hrs & 50min. long. Use your time wisely. Establish a plan of attack. You may assign tasks among group. Collect all data and then compile and share group collected data making sure every student in group is familiar with techniques used to acquire it. Any time you have an experimental value that should agree with a theoretical value you’re looking for less than 10%
difference and you should always show your relative % difference calculations in your report. A completed lab is due the following lab! Each student in a group is required to write and turn in their own lab report do not just copy a fellow group members' sentences. Each lab should be unique to its author. Write or print legibly as unreadable hand writing will not be graded. Use complete sentences for all questions. If the question asks “explain” and all you say is yes or no it is marked incorrect. Points will be subtracted for incorrect units. Always read the appendix of your lab manual for the chapter being performed. It contains conversions and values you will need in the homework section of each lab.

*** Note: The first 10 minutes of Lab will be a Ten Point Quiz over the Lab for that day! Make sure you have read the correct lab (use the schedule provided!)

Lab Safety: Goggles, gloves, eye-wash bottles, fire extinguisher, first aid kit are provided in room.

Lab Equipment: It’s expensive and much of it is delicate and breakable. Handle accordingly.

*****You are expected to clean and put up equipment used every lab!*****

AMERICAN DISABILITIES ACT
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Aggie Honor System: Aggie Honor Code: "An Aggie does not lie, cheat, or steal or tolerate those who do." Upon accepting admission to Texas A&M University at Galveston, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. ignorance of the rules does not excuse any member of the TAMUG community from the requirements or the processes of the TAMUG Honor System. For additional information visit http://www.tamug.edu/agghonor.

Statement on Absences: Information concerning absences are contained in the University Student Rules Section 7, http://www.tamug.edu/uhull/Academic%20Rules/Rules%2007.pdf. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

Statement on the Family Educational Rights and Privacy Act (FERPA): FERPA is a federal law designed to protect the privacy of educational records by limiting access to those records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student's social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

Plagiarism Statement
As commonly defined, plagiarism consists of passing off as one's own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing Plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academics, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.
# LAB SCHEDULE

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lab Title</th>
<th>Chapter (lab book's)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Crust Models, Isostacy &amp; Rock Density</td>
<td>Ch.1</td>
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<tr>
<td>2</td>
<td></td>
<td>Bathymetry Ch.3 In addition to chapter there are</td>
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<tr>
<td></td>
<td></td>
<td>three detailed supplemental Hand Outs:</td>
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<tr>
<td></td>
<td></td>
<td>Oceanographic Atlas of Bathymetry offshore North</td>
<td></td>
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<td></td>
<td></td>
<td>Carolina, Sub bottom Seismic Profiling and a</td>
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<td></td>
<td></td>
<td>Bathymetry supplement.</td>
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<tr>
<td>3</td>
<td></td>
<td>Sedimentation Ch.10 In addition to chapter includes</td>
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<tr>
<td></td>
<td></td>
<td>detailed supplement on beach morphology and you</td>
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<td></td>
<td></td>
<td>will have to experimentally determine the size of</td>
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<td></td>
<td></td>
<td>an unknown grain size using Stoke’s Law.</td>
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<tr>
<td>4</td>
<td></td>
<td>Salinity</td>
<td>Ch.4</td>
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<tr>
<td>5</td>
<td></td>
<td>Coastal Navigation Ch.2*** In addition to chapter</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>includes supplemental field work with sextant and</td>
<td></td>
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<td></td>
<td></td>
<td>brunton compass, as well as triangulating boat</td>
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<td></td>
<td></td>
<td>position with a Mercator chart.</td>
<td></td>
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<tr>
<td>6</td>
<td></td>
<td>Phys. Factors Affecting Seawater Density</td>
<td>Ch.5</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Waves</td>
<td>Ch.7</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Water Mass Mixing and T-S Diagrams Ch.11 ***In</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>addition you will have to describe the Ocean’s</td>
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<td></td>
<td></td>
<td>current convoyer belt system.</td>
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<tr>
<td>9</td>
<td></td>
<td>Nekton lab Handout. *** Includes a look at the</td>
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<td></td>
<td></td>
<td>Physiological and Anatomical evolutionary</td>
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<td></td>
<td></td>
<td>adaptations of Marine Mammals. Weather permitting</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>the towing of a Bag Seine and assessing catch.</td>
<td></td>
</tr>
</tbody>
</table>
10 Phytoplankton/Zooplankton lab Handout.*** Includes field collection of beach plankton for a semi-quantitative assessment of plankton ecosystem's diversity and richness.

11 Benthos lab Handout.*** Includes field sampling of oyster reefs and comparison of two Galveston bay oyster communities as to diversity and richness.

12 (Boat trip) Field Application of topics learned during semester. Take home Final will be passed out.

13 ********Thanksgiving Week (No Labs)********

14 Take home Final help session
Texas A&M University

Departmental Request for a New Course
Undergraduate + Graduate + Professional

Form Instructions:
1. Course request type:  
   - Undergraduate
   - Graduate
   - First Professional (HES, MAD, AG, Phamen, IPA)

2. Request submitted by (Department or Program Name):
   - Marine Sciences
   - MARS 365 Integrated Marine Sciences Laboratory

3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   - Integrated lectures, field and laboratory exercises for data collection and analysis of physical, chemical, biological and geological measurements in ocean, coastal and estuarine environments.

5. Prerequisite(s):
   - MATH 152 or 142, PHYS 208 or 202, OCNNG 251, MARS 252, CHEM 102/112, BIOL 112 and GEOL 101/102.
   - Cross-listed with: 
   - Stacked with:

6. Is this a variable credit course?  
   - Yes
   - No
   - If yes, from _______ to _______.

7. Is this a repeatable course?  
   - Yes
   - No
   - If yes, this course may be taken _______ times.

8. Will this course be repeated within the same semester?  
   - Yes
   - No

9. Will this course be submitted to the Core Curriculum Council?  
   - Yes
   - No

10. How will this course be graded?  
    - Grade
    - S/U
    - P/F (CLMP)

11. This course will:
    a. Required for students enrolled in the following degree program(s) (e.g., B.A. in history)
       - Marine Sciences
    b. An elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)
       - Ocean and Coastal Resources (can substitute for MARS 310)

12. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

13. Prefix  Course #  Title (excluding punctuation)
    - MARS
    - 365
    - Integrated Marine Sciences Lab

Lect  Lab  Other  SCH  CW  Fund Code  Admin Unit  Acad Year  FICE Code
1.00  6.00  0.00  3.00  3032010002  110  13  0  1  0  2  9  8

Approval recommended by:

Kyeong Park  
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign)  Date
(if cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8011 or sandra.williams@tamu.edu.
Curricular Services - 07/14
MARS 365 – Integrated Marine Sciences Laboratory

SPRING 2017
Time: TBA
Place: TBA
Faculty Office Hours: TBA

Catalog Description:
Integrated lectures, field and laboratory exercises for data collection and analysis of physical, chemical, biological and geological measurements in ocean, coastal and estuarine environments.

Course Goal:
The main goal of this junior level course is to provide students hands-on experience with modern data collection and analysis techniques. We will focus on the four major oceanographic disciplines: geology, chemistry, physics, and biology. Students will receive the required theoretical background, collect and analyze their own data, and learn how to prepare a scientific report summarizing their work.

Instructor Information:
- MARS Faculty in the disciplines of oceanography: geology, chemistry, physics, and biology.
  The lead faculty are:
  Dr. Ayad Anis (anisa@tamug.edu; 409 740-4987)
  Dr. Karl Kaiser (kaiserk@tamug.edu; 409 740-4879)
  Dr. Tim DellaPenna (dellapet@tamug.edu; 409 740-4952)
- Graduate students will serve as teaching assistants and will work closely with the students.

Prerequisites
- MATH 152 (or MATH 142), PHYS 208 (or PHYS 202), OCNG 251, MARS 252, CHEM 102/112, GEOL 101/102, BIOL 112, junior standing or approval of instructor.

Required Materials and Texts:
- Field notebook and various office supplies, clothing suitable for work on a research vessel (specifically, closed toes boots and rain gear).
- Physical Oceanography - No standard textbook; However, several recommended textbooks will be on reserve in the library:
  - R. H. Stewart, on-line: oceanworld.tamu.edu/resources/ocng_textbook/contents.html

- Biological and Chemical oceanography - No standard textbook; hand-outs will be given. The following have been put on reserve in the library:
A manual of chemical and biological methods for seawater analysis by Timothy R. Parsons, Yoshiaki Malta and Carol M. Lalli


- Geological Oceanography
  None required, selected readings will be offered listed from the following references, which will be on reserve in the library:
  Marine Geology, by J.P. Kennett
  The Sea Floor: An Introduction to Marine Geology, by E. Seibold and W. Berger
  The Ocean Basins: Their Structure and Evolution, by the Open University Course Team
  Ocean Chemistry and Deep Sea Sediments, by the Open University Course Team

Attendance, Grading, Methods of Evaluation:
This is a 3 credit course and is limited to not more than 15 students per section. Grading will be based on mandatory attendance and participation in all labs and research cruises, work to be completed during and after cruises, and submission of research results in the format of a scientific paper. Final grade will be calculated as follows: lab reports – 85%; and in-class presentations – 15% (Each student is responsible to receive the instructor's approval on her/his chosen topic). Before submitting their research paper, students are required to consult with the writing lab staff. Grading scale: A ☐ 90.0%; B ☐ 80.0%; C ☐ 70.0%; D ☐ 60.0%.

Class/Lab Meetings and Research Excursions:
Note, this is a lab class, so, it will meet for a minimum of 6 hours per week and you will be expected to put in additional time outside of the scheduled lab hours, as needed to complete our work. The course meetings will be each Friday, 9-12 in the morning and 1-4 in the afternoon (exact meeting locations TBA). During this time lectures and/or lab sessions will be held, except when a research cruise is scheduled). The class will be divided into three modules, each running four weeks, the modules are 1) Physical Oceanography, 2) Biological/Chemical Oceanography, 3)Geological Oceanography. Each module will be run by a faculty member and graduate students within the respective discipline.

Research Cruises (tentative):
TBA

Learning Outcomes:
Although topics are subdivided into respective oceanographic disciplines, they will be integrated with the other disciplines to demonstrate the interdisciplinary nature of oceanography. Summary:
1. Conduct, compare and contrast data collection techniques in each sub-discipline.
2. Plan research cruises, including the development of both field and lab-based data
collection plans
3. Collect both field and lab data, and review and execute appropriate methods and techniques required for data acquisition.
4. Validate, analyze, interpret collected data and present in formal scientific reports and presentations.

Class Schedule:

Week 1
Introduction
Introduction to faculty and graduate students
Field and Lab Safety Training and Orientation
Pre-cruise planning

Weeks 2-5

Physical Oceanography (Anis and Park):
The physical oceanography section will familiarize you with different types of hydrographic and surface meteorological measurements and provide the tools for a basic understanding of data acquisition, processing, visualization, and interpretation. Observations will be made in estuaries (Galveston Bay as well as potentially other bays) and the coastal ocean. The different dynamics involved will be discussed and data collected by the students will be used to answer questions related to the physical processes, the temporal and spatial variability of various physical parameters, as well as related forcing mechanisms.

Students will use state-of-the-art instrumentation, which will include: conductivity-temperature-depth (CTD) profilers, acoustic Doppler current profilers (ADCP), tide and wave gauges, and meteorological instruments to collect their own data. Data obtained with these instruments will be processed and analyzed using modern data analysis techniques, which will be discussed in depth during class sessions. Each student will use the datasets collected during the course to answer scientific questions using various analysis methods. Team-work is encouraged, discussion with the lecturer and TA's, however, the student will have to individually analyze, summarize, and discuss, their own work and findings in formal lab reports.

Potential Topics:
• Sampling strategies - Lagrangian vs. Euclidian methods, vertical profiles, horizontal transects, moored instruments, drifters, remote sensing, basic statistics, and error analysis.
• Introduction to modern methods of data analysis and visualization (we will mostly use freely available software as well as Matlab, a technical computing language which is ubiquitous in the oceanographic community).
• Profiling instruments: CTD, ADCP, turbulence profilers, others.
• Moored instruments: CT, pressure sensors, current meters, meteorological sensors.
• Drifters (surface and deep), AUVs, remote sensing.
• Towed/shipboard instruments (ADCP, CTD, meteorological, sea-catch, others).
• Meteorological (shore and ocean based) and sea level stations.
• Oceanic forcing (surface waves, tides, bathymetry) and atmospheric forcing and air-sea interactions (surface wind stress and heat fluxes).

**Activities:**
1. Theoretical and practical considerations of topics above during frontal class sessions.
2. Hands on lab sessions of physical oceanographic instrumentation (CTD, ADCP, other). We will learn the principles on which these instruments are based (e.g. sound waves and the Doppler effect to measure water currents, conductivity and temperature to compute salinity and density of seawater). The software required for planning the deployment of the instruments will be discussed and practiced.
3. Deployments of a CTD sensor package (and possibly an ADCP current profiler) to collect detailed time series in order to elucidate physical processes.
4. CTD transects in Galveston Bay.
5. Discussion of scientific software packages plus hands on experience through the use of these packages for data analysis and visualization of the students' datasets (the Matlab environment will be used as our main software tool).

**Equipment:** CTD, Oxygen sensors, acoustic Doppler current profiler (ADCP), meteorological sensors, Secchi disk, Matlab analysis software.

**Weeks 6-9 Biological/Chemical Oceanography (Kaiser and Amon):**
The biological oceanography component of the course will allow the students to observe key organisms of the lower trophic levels in their environment. This would include rough species characterization, and the determination of abundance and activity – “Who is doing what?” Biological parameters to be determined include: phytoplankton biomass (chlorophyll a) and production (DO production), bacterial biomass (microscopy) and respiration (DO consumption), fluorescence (chlorophyll).
The chemical oceanography component will focus on standard parameters that can be related to biological parameters and would include: pH, absorbance (CDOM), dissolved oxygen (DO), POC, PON, DOC, DON, NO3, NH4, PO4, Si(OH), DIC, with options (as time allows) for alkalinity.

**Potential Topics:**
• Distribution of organisms and their activities along a time series in the Offats Bayou – from early February to late April.
• Distribution of organisms and their activities along a depth profile in the Gulf of Mexico at several stations.
• Influence of biological activity on the chemical composition in the water (gases, organic matter).
• Compare biological activities of the benthos and the water column.

**Activities:**
From the standpoint of biological and chemical oceanography the following measurements are
of key importance for the students to learn:

1. Water sampling to look at phytoplankton and bacterial abundance in the microscope
2. Chlorophyll a concentration
3. Particulate organic carbon and nitrogen (POC/PON)
4. dissolved oxygen concentrations and BOD (biological oxygen demand)
5. DIC (CO₂)
6. Nutrients like nitrate, ammonia, silicate, and phosphate
7. Dissolved organic carbon and nitrogen (DOC/DON)
8. short term experiments to determine primary production, grazing, and bacterial/community respiration

Equipment: Most of this work requires filtration and several filtration devices, including vacuum pumps and appropriate filters. A complimentary method to determine the phytoplankton (chlorophyll) biomass is the use of fluorescence that can be determined in-situ in the field. Most analyses will be performed in the laboratory using state of the art analytical equipment.

Weeks 10-14 Geological Oceanography (Dellapenna and van Hengstum):
The geological component of this course aims to introduce the student to the basic concepts, tools, and approaches used in Coastal and Marine Geology. Focus will be placed on sampling strategies, experimental design, and development of hypotheses to address geologically oriented questions.

Potential Topics:
1. Investigation into particle dynamics of the estuarine turbidity maximum
2. Estuarine facies architecture within East Galveston Bay
3. Sediment dynamics of the Brazos River Delta
4. Investigations into facies architecture along a barrier island shoreface

Activities:
1) coring and sediment sampling techniques (gravity coring, grab samples, vibra coring, etc.)
2) sediment grain-size analyses
3) Core descriptions and x-radiography analyses
4) Integration of techniques into a geologically-based investigation.

Equipment: vibra corer, submersible vibra corer, gravity corer, boxcorer, grab sampler, CHIRP subbottom profiler, Geophysics workstation, echosounder, x-radiograph system, Malvern Particle Analyzer

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Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
* Submit original form and attach a course syllabus.*

Form Instructions

1. Course request type: ☑ Undergraduate □ Graduate □ First Professional (MD, MD, JD, PharmD, DPA)

2. Request submitted by (Department or Program Name): Marine Sciences

3. Course prefix, number and complete title of course:
   MARS 461 Capstone Undergraduate Research Experience II

4. Catalog course description (not to exceed 50 words):
   Research and scientific communications; development of a scientific abstract, poster presentation, oral presentation, or written scientific paper. Concurrent enrollment in MARS 491, senior standing or permission of the instructor (note: additional prerequisites may be required by faculty mentors, as related to the nature of their 491 projects)

5. Prerequisite(s):
   Concurrent enrollment in MARS 491, or class approval of instructor

6. Is this a variable credit course? □ Yes ☑ No
   If yes, from ____ to ____

7. Is this a repeatable course? □ Yes ☑ No
   If yes, this course may be taken ____ times.
   Will this course be repeated within the same semester? □ Yes ☑ No
   Will this course be submitted to the Core Curriculum Council? □ Yes ☑ No

8. How will this course be graded:
   ☑ Grade □ S/U □ YFR (CLAY)

9. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in History)
      Marine Sciences
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in Geography)

10. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

11. □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://hr.tamu.edu/resource/external-control-basics-for-distance-education).

12. Prefix Course # Title (excluding punctuation)

MARS 461 Capstone Undergraduate Res Exp II

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
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<th>Admin. Unit</th>
<th>Aca. Year</th>
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Approval recommended by:

Kyeong Park

Department Head or Program Chair (Type Name & Sign) Date 12/7/15

Chair, College Review Committee Date 10/30/15

Department Head or Program Chair (Type Name & Sign) Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sieden Williams at 845-8301 or sieden.williams@tamu.edu.

Curricular Services – 07/14
MARS 461 – Spring 2017
Capstone Undergraduate Research Experience-II (MARS-CURE-2)
Lecture: TBA (time and place)
Professor: Dr. Tim Della Penna, dellapennatamug.edu
Office: OCBS 341
Telephone: 409-740-4952
Office Hours: by appointment

This course is part of the MARS Capstone Undergraduate Research Experience (MARS-CURE). The MARS-CURE includes MARS 460, 461 and two semesters of MARS 491. This class focuses on

Learning Outcomes:
- Conduct and manage and extended (two semester-long) research project
- Design and execute research experiments
- Develop scientific communications skills
- Interpret results, develop scientific discussion and conclusions
- Abstract writing and revising
- Preparation and presentation of research poster
- Preparation and presentation of a scientific talk based on research conducted
- Preparation and writing of scientific research paper.

Course Description and Prerequisite – Research and scientific communications; development of a scientific abstract, poster presentation, oral presentation, or written scientific paper. Concurrent enrollment in MARS 491, senior standing or permission of the instructor (note, additional prerequisites may be required by faculty mentors, as related to the nature of their 491 projects)

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Project updates and plans for the semester</td>
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<tr>
<td>2</td>
<td>Project updates continued</td>
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<tr>
<td>3</td>
<td>Scientific communications and abstract writing</td>
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<td>4</td>
<td>Scientific communications- Poster development</td>
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<tr>
<td>5</td>
<td>Project updates</td>
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<tr>
<td>6</td>
<td>Project updates continued</td>
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<td>7</td>
<td>Scientific communications- final paper write up</td>
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<td>8</td>
<td>First draft of research abstract due</td>
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<td>9</td>
<td>TBA</td>
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<td>10</td>
<td>Abstracts Due for TAMUG Research Symposium</td>
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<td>11</td>
<td>Posters Due</td>
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<td>12</td>
<td>Guest Faculty Lecture</td>
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<td>13</td>
<td>Guest Faculty Lecture</td>
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<tr>
<td>14</td>
<td>TAMUG Research Symposium</td>
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<tr>
<td>15</td>
<td>Final project update for semester and project plans for following semester</td>
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</tbody>
</table>

Supplemental readings will be posted on the class website
Because this is a field class, the schedule is very fluid and will be changed according to a variety of factors, including weather, availability of vessels and equipment, and class progress.

Research Projects:
Each member of the class will work on an individual research project. Some of you will be working on related projects and if this is the case, all project data will be made available to each participant via Blackboard or other electronic resources. Each student will be responsible for writing their own proposal and each individual member will be responsible for writing their own final paper (based off of community data sets as well as their own data, depending on the project). In addition, each student will be responsible for writing an abstract and presenting a poster at the TAMUG Research Symposium in late April.

Each project will be a major undertaking but will be designed to be something that can be accomplished in two semesters. Please note, unlike other classes, many of these projects are a component of an on-going research project in your mentor’s research lab and may become part of a peer reviewed publication. As such, we are depending on you to provide professional work and will not tolerate anything less in both your final product and your effort. Depending on your contribution and how your effort fits into the larger project, you may be included as a co-author of the papers and abstracts.

Class design- the majority of this class will focus on your projects and the lab will be open for you to work during non-class hours. Your projects will take up more than the allotted class time slots and you will need to allot additional time for your lab work on your own. Note, for each 491 credit hour, you will be expected to work a minimum of 3 hours per week on your project; that means at least 6 hours per week on your own. You will be responsible for scheduling the work on your project and negotiating this schedule with your research mentor and their respective lab members. NOTE- WE ARE ALL BUSY PEOPLE AND WILL NOT TOLERATE NO-SHOWS OR OTHER UNPROFESSIONAL BEHAVIOR.

**Grading**

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<td>Abstract</td>
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**Grade Distribution:**
A=90-100%, B=80-89.9%, C=70-79.9%, D=60-69.9%, F=<60%

**EXPECTATIONS OF THE PROFESSOR**
This course is not an introductory marine science class, it is an advanced, 400 level Marine Sciences class. As such, I have the expectation that upon entering my class the student have a basic understanding of marine science. The instructor will not be providing a review of this material. This class is a professional research class. The professor expects students to be on-time with assignments and for assignments to be presented in an organized and professional format and manner and that when you make presentations you are dressed professionally.
THE AMERICANS WITH DISABILITIES ACT
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/Disabilities.html.

ACADEMIC DISHONESTY
For many years Aggies have followed a Code of Honor, which is stated in this very simple verse: "Aggies do not lie, cheat, or steal, nor do they tolerate those who do." As such, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. The Aggie Honor and the Scholastic Dishonesty sections in the TAMUG University Rules handbook will be the standard upon which scholastic integrity is maintained in this course. For additional information: http://www.tamug.edu/honorsystem/. In this class there will be zero tolerance for cheating or dishonesty.

STATEMENT ON ABSENCES
Information concerning absences is contained in the University Student Rules Section 7, http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45). An excused absence does not obviate the need to learn the material missed.
Memo to students on the mechanics and structure of the MARS 460-461 and linked 491 MARS Capstone Undergraduate Research Experience.

The Marine Science-Capstone Undergraduate Research Experience (MARS-CURE) is required of all Marine Science (MARS) majors. The MARS-CURE consists of a two semester, research-based sequence of classes, consisting of MARS 460, 461 and enrollment during both Fall and Spring of MARS 491 (2-credits each). In the Fall the students will register for MARS 460. In addition, the student will select a faculty mentor and register with their respective mentor or two credits each for Fall and Spring in MARS 491. Currently, the Marine Science Research Faculty are: Drs. Amon, Anis, Dellapenna, Kaiser, Santschi, van Hengstum, Park, Wang. In addition, if there is a different mentor that wishes to work with the student, for example from the MARB Department, then, with permission of the MARS 460 instructor, they may select this mentor for the entire sequence.

During the Fall semester, the focus will be on developing a research project, research proposal, and beginning the research. The Spring Semester will focus on completing the research projects and presenting their research at the TAMUG Research Symposium as a poster, as well as giving an oral presentation at the Annual MARS Dept. Retreat, as well as writing a final paper.
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
• Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☒ Undergraduate  ☐ Graduate  ☐ First Professional (MD, JD, PharmD, DPA)
2. Request submitted by (Department or Program Name): Department of Liberal Studies/Maritime Studies Program
3. Course prefix, number and complete title of course: MAST 336, MARITIME FOREIGN POLICY
4. Catalog course description (not to exceed 50 words): Strategies used by governments to guide international actions; objectives of state leaders in decision making; sources, processes, objectives and outcomes of maritime foreign policy choices.

5. Prerequisite(s): Junior or senior classification or permission of the instructor.
   Cross-listed with: Stacked with: 

6. Is this a variable credit course? ☐ Yes  ☒ No  If yes, from _____ to _____
7. Is this a repeatable course? ☐ Yes  ☒ No  If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester? ☐ Yes  ☒ No
8. Will this course be submitted to the Core Curriculum Council? ☐ Yes  ☒ No
9. How will this course be graded? ☒ Grade  ☐ S/U  ☐ P/F (CLMD)

10. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A., Maritime Studies

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☒ I verify that I have reviewed the PAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    MAST  336  MARITIME FOREIGN POLICY

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Approval recommended by:

JoAnn DiGeorge, LMS  10/22/15
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  10/22/15
Date

Delphi of College
Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 01/14
MAST 336 MARITIME FOREIGN POLICY
Spring 2017
Meeting times and location TBD

Course Description and Prerequisites

Course Objectives: Foreign Policy is generally defined as the strategies used by governments to guide their actions in the international arena. Foreign policy spells out the objectives that state leaders decide to pursue in a given situation or relationship, as well as the means by which they intend to pursue those objectives. The purpose of this course is to gain a greater understanding of how states formulate their maritime foreign policy and the sources, processes, objectives and outcomes of maritime foreign policy choices.

Course Prerequisites: No course prerequisites required. Students must be junior or senior classification; freshman and sophomores may enroll with permission of the instructor.

Learning Outcomes

Learning Outcomes: This is a lecture-discussion class. At the end of the course you will
1. Identify and explain the determinants of foreign policy within a maritime context;
2. Analyze conflicting maritime national security and territorial claims; and
3. Employ theoretical approaches to explain maritime foreign policy events.

Instructor Information

Name: Dr. DiGeorgio-Lutz
Telephone number: 409 740-4463
Email address: digeorgi@tamug.edu
Office hours: TBA
Office location: CLB 130

Textbook and/or Resource Material

Required Texts:
Additional reading material will be handed out by the instructor.
You must purchase the following four case studies in diplomacy directly from the Institute for
the Study of Diplomacy website at http://www.guist.org
PDF versions are $3.50 each. Just type the case number in the “search” box.
Case 246: Mischief on Mischief Reef: Chinese Adventures in the Spratly Islands
Case 226: The Turbot War: Canada, Spain and Conflict over the North Atlantic Fishery
Case 231: The 1996 Taiwan Strait Crisis: The United States and China at the Precipice of War?
Case 275: A Question of Sovereignty: Bahrain, Qatar, and International Court of Justice

Grading Policies

Assignments and Grades:
1. Case Studies in Diplomacy: There will four short papers on the case studies in diplomacy topics. Each case study paper is worth 10 points for a total of 40 points. Instructions for each case study paper are included in the syllabus.
2. Final Examination: The final examination is take home and will consist of a hypothetical case that you must analyze and make a foreign policy recommendation. The final is worth 20 points.
3. Participation: 15 points. Do not underestimate the significance of this portion of your grade for it represents one letter grade. Participation means that you have read assigned cases and other readings and that participate in the analysis and discussion of the materials. The level and quality of participation, as well as attendance, will be grounds for the distribution of participation points. Participation is important for the discussion of our books on the Mayaguez and the USS Pueblo. See also http://www.tamu.edu/stflife/Academic%20Rules/Rules%20207.pdf
4. Research Power point presentation: You are required to pick a research topic on some area/issue of maritime foreign policy/national security in consultation with me and display your research in the form of a power point presentation. I will provide you with specific details about the contents of the posters and the range of maritime topics in a separate handout. The power point presentation is worth 25 points.

Grading Scale: 100-90=A; 89-80=B; 79-70=C; 69-60=D; below 60=F.

Attendance and Make-up Policies

Attendance Policy: Attendance is required. If you are not in class, you cannot earn participation credit. As a member of this class and the university I expect you to take your education seriously. A university education is something that you earn and in order to respect the integrity of that education you are expected to come to class prepared. This means that you have read the assigned material prior to coming to class. You are required to take an active role in the learning process as well as responsibility for your learning. I do not give extra credit. Absences will only be accepted for University excused absences as outlined in Student Rule 7 http://www.tamu.edu/stflife/Academic%20Rules/Rules%20207.pdf. The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class for which a University excused absence has been issued by the Vice President for Academic Affairs.
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days:
      Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days:
      Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:
      (i) Texas A&M University Explanatory Statement for Absence from Class form available at http://www.tamu.edu/stulife/Absence%20Statement.pdf or (ii) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

Students with Disabilities:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamu.edu/counsel/Disabilities.html.

Academic Integrity:
“An Aggie does not lie, cheat, or steal or tolerate those who do.” I will not tolerate cheating on exams or plagiarism on assignments. If you cheat or plagiarize you will not receive any credit for the exam or assignment. For further information please see the Honor Council Rules and Procedures at http://www.tamu.edu/HonorSystem cell phones, I-pods, blackberries, and other such devices must be turned off and put away during class.

Statement on the Family Educational Rights and Privacy Act (FERPA)
FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the rights of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions and Records Office.
Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to insure confidential treatment of information associated with or generated by your participation in this class.
In order to insure compliance, I will not discuss your grade with you via the Internet.
Course Evaluations:
The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at http://pica.tamu.edu, your Howdy portal, or by scanning

Tentative Reading and Course Outline:

Week 1: Introduction to the course, What is foreign policy?
      How do states define their national interests?

Week 2: Geopolitics—MacKinder versus Mahan/Determinants of Foreign Policy
        Robert D. Kaplan and the Indian Ocean

Week 3: U.S. Maritime interests

Week 4: Piracy. Read Garofano and Dew chapters 2 and 3

Week 5: India. Read Garofano and Dew chapters 5 and 11

Week 6: China. Read Garofano and Dew chapter 7 and additional readings provided by the instructor

Week 7: Case Study 246. Mischief on Mischief Reef: Chinese Adventures in the Spratly Islands
        Case study paper due.

Week 8: The Arabian/Persian Gulf
        Case 275: A Question of Sovereignty: Bahrain, Qatar, and International Court of Justice
        Case study paper due.

Week 9: The Taiwan Straits
        Case 231: The 1996 Taiwan Strait Crisis: The United States and China at the Precipice of War?
        Case study paper due

Week 10: Resource wars
        Case 226: The Turbot War: Canada, Spain and Conflict over the North Atlantic Fishery
        Case study paper due


Week 12: Read: The Pueblo Incident: A Spy Ship and the Failure of American Foreign Policy

Week 13: Power point presentations

Week 14: Power point presentations
Week 15: Take home final examinations due by 3pm.

As instructor, I reserve the right to amend, modify, or adjust this syllabus as needed.

Questions and Instructions for Case Studies

Formatting: Case studies must be typed, double-spaced, 1 inch margins, 12 point Times New Roman fonts, page numbering on bottom right-hand corner, name on separate cover sheet, stapled. Separate each question by number. You do not need to research these cases—all the information you need to write your short papers is contained within the case study narrative. Please do not use excessive quotes to respond to the questions. You should assume that the reader (me) has no background knowledge of the case.

Case Study 275: A Question of Sovereignty: Bahrain, Qatar, and the International Court of Justice.

Part A
1. Why was the border dispute between Qatar and Bahrain so contentious and difficult to resolve? What issues were at stake? Was one party more responsible for the continuing conflict or were both “at fault”?
2. How might this case have been different without the possible presence of petroleum and natural gas in disputed territories?
3. Bahraini officials consistently argued that, as the Bahraini newspaper Al-Ayyam put it, “the stance announced by Qatar’s foreign minister…of adopting two mechanisms to solve the dispute—through court and mediation—is illogical and cannot be implemented practically.” Do you agree or disagree? Are there advantages to pursuing two tracks simultaneously, or does the use of one approach undercut the other?

Part B
4. Did the decision of the International Court of Justice surprise you? What was the reasoning of the ICJ in making its ruling? What principles of international law were most relevant?

Case Study 231. The 1996 Taiwan Strait Crisis: The United States and China at the Precipice of War?

1. Pre-crisis questions:
   a. Was President Lee Teng-hui’s visit to the United States “unofficial” or “official”? Why was China so upset at Lee’s visit? Why had the United States initially denied a visa only to subsequently reverse its decision?
   b. What is the central disputed issue in the conflict between China and Taiwan? What is Taiwan’s policy toward China and reunification? What is China’s policy toward Taiwan and reunification? Why is Taiwan so important to China?
   c. What are the American national interests at play in the relations with China and Taiwan? How do China and Taiwan view their national interests in the triangular relationship?

2. Crisis questions:
a. What impact did domestic American politics have on the Clinton administration’s policy? What roles did domestic American institutions such as the State Department, the National Security Council and Congress play in the policy formulation process? Who were the most influential American policymakers during the crisis? Do the Chinese and Taiwanese understand the dynamics of American policy-making?

b. What were the Chinese political and military responses to U.S. policy? Were China’s political and military reactions appropriate, or did they only threaten to escalate the crisis?

3. Post-Crisis questions:

a. Did the United States advance its national interests with the use of its military in the crisis? How high were the risks of U.S. and Chinese forces clashing during the crisis? Were these risks acceptable or too high for U.S. interests in the region?

b. What were the most significant steps taken by Taiwan, China and the United States that helped diffuse the crisis? Alternatively, what actions might each of the countries have taken that could have led to an escalation in the crisis and to war?

c. What are the implications of the lessons of the crisis for the future of U.S.-Taiwan-China relations? In the future, should the United States openly declare a commitment to defend Taiwan in the event of a Chinese attack, or would a policy of ambiguity be a better deterrent? Could Chinese nuclear weapons ever be used as an instrument of policy vis-à-vis Taiwan?

Case Study 246: Mischief on Mischief Reef: Chinese Adventures in the Spratly Islands
1. From the perspective of Roberto Romulo, what is the best approach to resolving the issue since both China and the Philippines claim sovereignty over the Spratly’s?
2. What are China’s long-term intentions in the region? Are their intentions purely economic?
3. How is this territorial dispute viewed by other states in the region?
4. Does the United States have an interest in this dispute? What role could the U.S. play?

Case Study 226: The Turbot War: Canada, Spain and Conflict over the North Atlantic Fishery
1. Tragedy of the Commons and Environmental Management
   a. What environmental factors make management of turbot stocks difficult? What political factors contribute to this difficulty? If turbot stocks only existed within Canada’s 200 mile EEZ would conservation have been easier? What options are there for management of a resource when its different users value it differently?

2. International Environmental Law
   a. Why was the regulatory treaty negotiated to manage fishery resources in this case? Do the consequences of allowing states to “opt out” of provisions outweigh the advantages of allowing for quick changes in regulations to reflect environmental conditions? Does the suspicion that a ship is not complying justify taking actions, against the wishes of that ship’s crew to find out?

3. Relationship between domestic politics and international politics
   a. To what extent were both governments in the crisis playing to domestic audiences rather than maximizing their broader national interests? Was this crisis driven by the political issues involved, or the personal characteristics and agendas of national leaders?
Topics for Research/Power Point Presentations

You are required to select a topic for research throughout the semester. Only 1 topic per student and you must sign up for a topic with me no later than the second week of class. You will present your research in a power point presentation. You must also submit a separate annotated bibliography that should contain a minimum of 8 journals articles. It is advisable that you meet with me to determine the format of your presentation depending on your topic—I will also give you guidance on finding appropriate scholarly resources.

UNCLOS
Paracel Islands (China and Vietnam)
Hydrocarbons and their energy significance
The Codfish Wars (Iceland and U.K.)
U.S. and Canada Salmon Dispute
Canada and U.S Northwest Passage
Iran and United Arab Emirates (Greater and Lesser Tunbs)
Falklands/Malvinas War
Terrorism in Indian Ocean
Chilean-Peruvian Maritime dispute 2006
Panama Canal Treaties
U.S. Cooperative Strategy for 21st Century Seapower
Diaoyu/Senkaku Island Dispute (China and Japan)
India-Bangladesh maritime border dispute
China and the Nine-Dash Line
Bangladesh and Myanmar and Permanent Court of Arbitration
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
• Submit original form and attach a course syllabus.

Form Instructions

1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (MD, JD, PhD, DVM)

2. Request submitted by (Department or Program Name): Department of Liberal Studies / Maritime Studies Program

3. Course prefix, number and complete title of course: MAST 493 Maritime Studies Travel Experience

4. Catalog course description (not to exceed 50 words):
Combination of classroom and travel emphasizing cultural, archaeological, political, and/or historical aspects of maritime humanities related topics.

5. Prerequisite(s):
Cross-listed with:

6. Is this a variable credit course? ☑ Yes ☐ No If yes, from __________ to __________

7. Is this a repeatable course? ☑ Yes ☐ No If yes, this course may be taken __________ times.

8. Will this course be repeated within the same semester? ☑ Yes ☐ No

9. Will this course be submitted to the Core Curriculum Council? ☑ Yes ☐ No

10. How will this course be graded? ☑ Grade ☐ S/U ☐ P/F (C,M,D)

This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

B.A., Maritime Studies

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpc.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Faculty:

Prof. ☑ Course #: Title (including pronoun)

MAST 493 MAST Travel Experience

Credits Lab Other SH GIPE Code Admin Unit Academic Year Eff Date
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Approval recommended by:
Dr. JoAnn DiGiorgio-Lutz 10-01-15

Department Head or Program Chair (Type Name & Sign) Date Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date Date

Submitted to Coordinating Board by:
Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services - 07/14
Instructor: Dr. Victor Viser  
(e) Viser@tamug.edu / (t) 409.740.4556 / Office Location: CLB 128  
Office Hours: M/W 9:30 – 10:30 am., W 2:30 am. – 4:00 pm. Other times by appointment.

Term: TBD  
Meeting Time: TBD  
Location: TBD

Required Reading: Tour Program and Policies (provided)  
Various handouts and Internet links as provided

The Tour Program and Policies booklet must be read in advance of leaving and carried by the student throughout the study abroad program.

COURSE INFO

Description of the Course: Combination of classroom and international travel emphasizing cultural, archaeological, and/or historical aspects of maritime humanities related topics. 
Prerequisite: Junior or senior classification and approval of the instructor.

The Thirteen Colonies of the United States declared their independence from Great Britain in 1776. However, nationhood for New Zealanders is a relatively recent phenomenon, having occurred for all practical purposes in the early 1970’s. Like the United States, New Zealand has a rich social, political, and cultural structure steeped in plurality and maritime history. From its settlement by Eastern Polynesians in the 13th century, to colonization by Europeans in the 19th century, to an environmentally activist citizenry with a global outlook in the 21st century, New Zealand provides an interesting anthropological laboratory for study abroad students.

In our course, we will visit the various centers of New Zealand Māori and European settlement culture, politics, history, art & architecture, mass communication, and nature. Of particular relevance to our study will be New Zealand’s connections to all of these aspects to maritime life and environmental conservation. We will engage in discussions with a variety of leaders and representatives of New Zealand associated with these areas of study, which will then inform our own group discussions during the course of our stay. We will start at the northern tip of the north island and make our way down (or is it up?) to the southern tip of the south island and into Fiordland.

Learning Outcomes for the Course: at the end of the course students will be able to demonstrate the following learning outcomes:

1) Recognize and identify the importance of cultural plurality and assimilation to the history of New Zealand;
2) appreciate and explain the political factors that have informed the New Zealander identity – from its Polynesian influenced pre-colonial period to its inclusion in a larger Australasian regionalism;
3) execute critical thinking for the analysis of modern New Zealand mass communication including the news industry, popular music and film, architecture, and the Internet;
4) discriminate and synthesize various social, political, geographic, and economic factors that influence New Zealand’s general position as an environmentally conscious nation;
5) evaluate the importance preservation of natural habitat (particularly estuaries and fiords) and renewable resource energy policy plays in the socio-cultural outlook of New Zealand;
6) generate comparisons of New Zealand’s maritime/sailing culture and with those of other maritime nations.
Format: The course is built around site visits, lectures, group participation, analysis, and writing. On site, we will meet and hear from a variety of people including organizational staff, political leaders, conservationists, artists, journalists, and educators. We will discuss many topics that inform the historical, socio-cultural, mass communication, political, policy, economic notions of New Zealand. Therefore, your active participation in each and every site visit is expected. You are also encouraged to take notes, photos, and video as appropriate to the content of the activities.

Absences: Because the world is our classroom in this study, you will only receive full credit for participation if you show up for our daily activities. If you don’t show up for a daily activity you can expect to receive a grade of zero for the participation portion of the final grade – and participation counts for 20% of your final grade. Arriving more than 10 minutes late is counted as absent. Please consult the University Student Rules online at TAMUG Student Rule: Attendance for reasons for excused absences, detailed procedures and deadlines.

I encourage and reward students who participate in the lectures and discussions. Furthermore, know that I will call on students from time to time during the course of our study to relate their thoughts. This is a critical thinking class.

Course Evaluation Criteria:

- Final Comprehensive Report of Study: 60%
- Individual Site Journal Observations (4 @ 20% each) & Journal (20%)
- Site/Course Participation – Assessed by perfect activity attendance and degree of participation in discussions. 20%

Final Grade Scale:

- A (100-90) / B (89-80) / C (79-70) / D (69-64) / F (63-0)

Final Comprehensive Report of Study: A 10-15 page (double-spaced with 1" margins) paper written as a research report analyzing and arguing the knowledge/concepts learned during the length of the study. This paper will be derived from notes taken during the study that may include information derived from speakers, handouts, and interviews. The report is due within three weeks of our return. Please see the assignment handout for more details.

Individual Site Journal Observations & Journal: For this assignment, you will produce a 3-5 page (double-spaced with 1" margins) observation of each of any four sites we visit. Each paper will be a product of journal entries you will make for each site visit. Choose your four favorite (the selection criteria is up to you) and write about them in the terms outlined in the assignment handout. Be sure to enter a journal observation for each of our site visits (preferably in a typed journal, though the journal can also be handwritten). The site observations will be emailed to me during the course of the study, while the journal will be turned upon landing.

Site/Course Participation: We will be traveling quite a bit and meeting on many different sites. You will need to participate in them all to get full participation credit. As well, we will be occasionally dividing into groups for a variety of projects. Your participation in these groups and their presentations will also contribute to your participation grade. It should be noted that there is also a significant amount of personal reflection time built into the course of our study in-country.
A FEW POLICY ISSUES

1) The use of mobile devices for texting or talking during site visits is strictly prohibited. It cannot be overstated: **Simply turn off the device while on site.** Checking for messages, texting messages, and so forth distracts from our mission of higher education, is unnecessary for the time we have on site, and it will severely harm your final grade.

2) This is a course conducted in the environs of higher education. It is a place of diverse ideas and opinions, and the critical analysis and discussion of those things. While we might agree on some notions, and have divergent positions on others, we will always do so with civility in this class. Insulting remarks, condescension, ridicule, or intimidation of fellow students will not be tolerated.

3) Cultural analysis is often filled with content and/or interpretations of that content that many people might consider offensive in many different ways. Thus, the notion of potential offensiveness of content in any material and/or presentations is set forth here in advance only to foster and inform our discussions of international communication – not to delimit them in any form or fashion.

4) In addition to volunteering your own thoughts regarding the material in discussion, be prepared to sharply respond to questions/comments sent your way during lecture and discussions.

COURSE SCHEDULE

(As instructor, I reserve the right to amend, modify, or adjust this syllabus as needed.)

Depart Houston May 30 / Arrive Auckland

Auckland – Pioneering, Polynesia, The Maori, and Sailing (June 1-4):
   Site Visits: New Zealand Maritime Museum
   Rotorua ~ Te Puia (Marae visit)
   The Coromandel
   Ponsonby Road ~ Colenso BBDO Agency

Napier – Art Deco & The Kiwi Biodiversity of Hawkes Bay (June 5-7)
   Site Visits: Downtown Napier
   Hawkes Bay
   Waitangi Wetlands / Estuary

Wellington – Politics, Policy, Art (June 7-11)
   Site Visits: The New Zealand Parliament (the "Beehive")
   The Museum of New Zealand
   Saatchi & Saatchi Agency
   Katherine Mansfield House & Garden
   Downtown Stage Theatre (performance)
   Weta Digital Studio

Christchurch – Old World & Antarctic Exploration History (June 11-14)
   Site Visits: Christchurch Cathedral
   International Antarctic Centre
   Canterbury Museum and Library
   Britten Motorcycle Works
Dunedin – Learning the New World (June 15-17)
Site Visits: Larnach Castle
Olveston Home
Otago Peninsula
Dunedin Railway Station

Taupo Country – Mt. Cook and The Waters of Fiordland (June 17-23)
Site Visits: Milford Sound
The Rob Roy Track
Queenstown
Mount Cook Base

Depart Christchurch June 25 / Arrive Houston

Final Exam: Final Comprehensive Report of Study due via email within two weeks of returning.

The Americans With Disabilities Act (ADA) Policy Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Student Services. For additional information visit the website page Students with Disabilities.

Academic Integrity Statement

For many years Aggies have followed a Code of Honor: "Aggies do not lie, cheat, or steal, nor do they tolerate those who do." As such, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. The Aggie Code of Honor and the Scholastic Dishonesty sections in the TAMUG University Rules handbook will be the standard upon which scholastic integrity is maintained in this course. Visit online at The Aggie Code of Honor. Plagiarism will not be tolerated. It is an absolute that academic dishonesty infractions will result in failure of this course as a minimum sanction.

Statement on Absences

Information concerning absences is contained in the University Student Rules, Section 7. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete assignments. For a University excused absence, the student should contact the Counseling Office to request a letter for the instructor stating that the Associate Vice President for Student Affairs or his/her designee has verified the student’s absence as excused. Please consult the University Student Rules online at TAMUG Student Rule: Attendance for reasons for excused absences, detailed procedures and deadlines.

If the absence is excused per the process outlined in the University Student Rules, the student must be given the opportunity to make up work that was missed. The instructor is under no obligation to provide an opportunity for the student to make up work missed because of an unauthorized absence. See Part III, Student Grievance Procedures, Section 49, Unexcused Absences, for more information about appealing an instructor’s decision.
Statement on the Family Educational Rights and Privacy Act (FERPA)

FERPA is a federal law designed to protect the privacy of educational records by limiting access to those records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Record Office.

Information that can never be identified as public information are a student’s Social Security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment or information associated with or generated by your participation in the class.
TAMUG
Change in Courses
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DPT)
2. Request submitted by (Department or Program Name): Department of Marine Biology
3. Course prefix, number and complete title of course: MARB 437 PATHOLOGY OF MARINE ANIMALS

4. Change requested
   a. Prerequisite(s): From: MARB 315, 435, MOCR 351. Junior or Senior Classification or approval of instructor. To: MARB 315, Junior or Senior Classification or approval of instructor.
   b. Withdrawal (reason): 
   c. Cross-list with: 

   Cross-listed courses require the signature of both department heads.

5. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   a. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
6. Is this an existing core curriculum course? [ ] Yes [ ] No
7. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMN)
8. If this course will be stacked, please indicate the course number of the stacked course.
   [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

9. Complete current course title and current catalog course description:
   An introduction to the structural and functional changes in cells, tissues and organ systems of marine invertebrates and vertebrates as they relate to disease and/or injury. Mechanisms of disease and identification of lesions in common diseases and human-induced injuries will be included. Laboratory will consist of gross and microscopic aspects of pathology in both invertebrate and vertebrate animals.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Examination of changes or loss of physiological function as related to common diseases (viral, bacterial, parasitic) or injury; Mechanisms of disease in cells, tissues and organ systems of marine invertebrates are presented. Emphasis on marine mammals, fishes and marine reptiles/birds also presented; Clinical manifestations, diagnostics and treatments are discussed.

11. a. As currently in course inventory:

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Approval recommended by: 
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Submitted to Coordinating Board by: 
Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu
Curricular Services – 08/14
Course title and number: MARB 437 – Pathology of Marine Animals

Term: Fall 2016

Meeting times and location: TBD.

COURSE DESCRIPTION: MARB 437 (3-0). 3 Credits.
Examination of changes or loss of physiological function as related to common diseases (viral, bacterial, parasitic) or injury. Mechanisms of disease in cells, tissues and organ systems of marine vertebrates are presented. Emphasis on marine mammals. Fishes and marine reptiles/birds also presented. Clinical manifestations, diagnostics and treatments are discussed.

PREREQUISITES:
- MARB 315
- Junior and senior classification or approval by instructor.

LEARNING OUTCOMES:
After completing the course, students should be able to:

- Discriminate between different diseases affecting marine animals.
- Explain how the physiological function of different organ systems are affected by these diseases.
- Describe how these physiological changes are affecting overall health of the animal.
- Evaluate, based on symptoms, which disease the animal contracted.
- Apply knowledge of each disease to determine appropriate treatment.
- Examine how biotic and abiotic factors can increase the risk of various diseases.

INSTRUCTOR INFORMATION:
Name: Dr. Lene H. Petersen
Telephone number: 409-740-4768
Email address: peterse@tamug.edu
Office hours: by appointment
Office location: Bldg. 3029, room # 241
TEXTBOOK AND RESOURCE MATERIAL:
Textbooks are optional, but highly recommended.


GRADING:
A = 90 to 100%
B = 80 to 89%
C = 70 to 79%
D = 60 to 69%
F = 59 and below

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<td>Intro to physiology of marine fishes and reptiles</td>
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<td>Week 4</td>
<td>Infectious diseases of marine mammals</td>
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<td>Bacterial disease of marine mammals</td>
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<td>Week 6</td>
<td>Parasites of marine mammals</td>
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<td>Week 7</td>
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<td>Week 8</td>
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<td>Week 9</td>
<td>Pathophysiology of fishes-2</td>
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<td>Week 10</td>
<td>Case studies - fishes</td>
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<tr>
<td>Week 11</td>
<td>Pathophysiology of marine reptiles</td>
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<td>Week 12</td>
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<td>Week 13</td>
<td>Case studies - reptiles</td>
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<td>Week 14</td>
<td>Pathophysiology of marine animals</td>
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<tr>
<td></td>
<td>FINALS BEGIN</td>
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</table>

*syllabus is subject to change*
EXAMS: There will be 4 exams each worth 100 points. All exams are in-class, closed book and must be done independently. No electronic devices will be allowed to be out during the exam. Exams 1-4 are not comprehensive, however, an understanding of all topics covered up until the exam is expected. Exams may contain true/false, multiple choice, diagrams/graphs, short answer and short essay questions. Point totals will be on the exam. Students may ask clarification from the exam proctor but may not ask for help getting the answer. Students will have entire class time to complete the exam.

MAKE-UP POLICY
If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details [http://www.tamu.edu/stulife/Academic%20Rules/Rule%207.pdf]. The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.
1) Participation in an activity that is required for a class for which a University excused absence has been issued by the Vice President for Academic Affairs.
2) Death or major illness in a student’s immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1).
   b) Injury or illness of less than three class days: Student will provide one or both of these (at instructor's discretion), within one week of the last date of the absence:
      (i) Texas A&M University Explanatory Statement for Absence from Class form available at http://www.tamu.edu/stulife/Absence%20Statement.pdf or (ii) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

ATTENDANCE/PARTICIPATION: To successfully complete this course, you should attend all lectures. The textbook covers advanced topics and hence lectures will interpret and synthesize topics presented in the text. In order to obtain a full comprehension of fish physiology it is essential to read the material before coming to class. If a student misses a class, it is the student's responsibility to obtain lecture notes and material from classmates.

ABSENCES: Information concerning absences is contained in the University Student Rules Section 7 [http://www.tamu.edu/stulife/Academic_Rules/7_Absences.html]. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

INDEPENDENCE, APPROPRIATE REFERENCES AND THEIR CITATION: All aspects of the course must be done independently and NOT as team efforts except where specifically requested by the course teachers. All perceived copying or sharing will be penalized by subtraction of that part of the assignment from the final grade. Plagiarism can include but is not limited to:
- Steal and pass off (the ideas or words of another) as one's own.
• To use (another’s production) without crediting the source.
• To commit literary theft.
• To present as new and original an idea or product derived from an existing source.

CLASSROOM BEHAVIOR: The TAMUG Academic Rule 21 states “Texas A&M University supports the principle of freedom of expression for both instructors and students. The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. Classroom behavior that seriously interferes with either (1) the instructor’s ability to conduct the class or (2) the ability of other students to profit from the instructional program will not be tolerated. And individual engaging in disruptive classroom behavior may be subject to disciplinary action”. Limit private conversations, use of electronic devices, or anything that could distract the instructor or other students. If you have business to conduct, quietly leave the room. See http://www.tamu.edu/stulife/Academic%20Rules/Rule%2021.pdf for more information.

AGGIE CODE OF HONOR AND ACADEMIC INTEGRITY: For many years Aggies have followed a code of Honor, which is stated in this very simple verse:

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. This code also applies in the classroom. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. The Aggie code of honor and the scholastic dishonesty section in the TAMUG University Rules will be the standard upon which scholastic integrity is maintained in MARB 437. Refer to the Honor Council Rules and Procedures at http://www.tamu.edu/HonorSystem

AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamu.edu/counsel/Disabilities.html.

STATEMENT ON THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA): FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

STATEMENT ON COURSE EVALUATIONS: The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at http://pica.tamu.edu or your Howdy portal, or by scanning:
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
• Submit original form and attachments •

Form Instructions:
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DGS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Marine Sciences
3. Course prefix, number and complete title of course: MARS 101 Marine Science Matters

4. Change requested:
   a. Prerequisite(s): From: ______________________ To: ______________________
   b. Withdrawal (reason): ______________________
   c. Cross-list with: ______________________

   Cross-listed courses require the signature of both department heads:

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes  ☐ No

6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMU)

7. If this course will be stacked, please indicate the course number of the stacked course:

   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description:

   101. INTRODUCTION TO MARINE SCIENCES. (1-0). Credit 1. A non-technical introduction to the field of marine sciences, including biology, ocean activities, and marine industries. Course includes lectures, seminars, outside speakers, and industrial contacts.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

   101. MARINE SCIENCE MATTERS. (1-0). Credit 1. A non-technical introduction to the field of marine sciences, including biology, ocean activities, and marine industries. Course includes lectures, seminars, outside speakers, and industrial contacts.

11. a. As currently in course inventory:

      Prefix | Course # | Title (excluding punctuation)  
      MARS  | 101      | INTRODUCTION TO MARINE SCIENCE  

      Lect. | Lab | Other | SCH | CIP and Fund Code | Admin Unit | FICE Code | Level  
      1.00 | 0.00 | 0.00 | 1.00 | 3032010002 | 1810 | 0 1 0 2 9 8 | 1

   b. Change to:

      Prefix | Course # | Title (excluding punctuation)  
      MARS  | 101      | MARINE SCIENCE MATTERS  

      Lect. | Lab | Other | SCH | CIP and Fund Code | Admin Unit | FICE Code | Level  
      1.00 | 0.00 | 0.00 | 1.00 | 3032010002 | 1810 | 16 - 17 0 1 0 2 9 8 | 1

Approval recommended by:

[Signature] 9/16/15

Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MARS 101 Marine Science Matters

The primary change to this course is the name change with an updated description, to make it a more interesting title and to fit with the use of this course as a freshman experience for both marine science and ocean and coastal resources majors. It has not been required in either degree program in the past, but has been added to both degree programs in these changes. The addition of a vessel trip as a part of the course will enhance the opportunity to bring the students out to the environment they are studying.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments.

1. Course request type:
   ✓ Undergraduate  ☐ Graduate  ☐ First Professional (DVM, MD, JD, Ph.D., DPA)

2. Request submitted by (Department or Program Name):
   Marine Sciences

3. Course prefix, number and complete title of course:
   MARS 303 Computing and Data Display

4. Change requested:
   a. Prerequisite(s): From: _______________________________ To: _______________________________
   b. Withdrawal (reason): _______________________________
   c. Cross-list with: _______________________________

5. Is this an existing core curriculum course? ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type: Grade S/U ☐ P/F ☐

7. If this course will be stacked, please indicate the course number of the stacked course: _______________________________

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education).

9. Complete current course title and current catalog course description:
   303. INTRODUCTION TO COMPUTING AND DATA DISPLAY (2-2) Credit 3. The purpose of this course is to introduce the student to the elements of programming and data display primarily through the MATLAB computing environment. Students will also be exposed to the FORTRAN programming language and the UNIX operating system. Prerequisites: Jr or sr classification or approval of instructor.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words)
    303. COMPUTING AND DATA DISPLAY (2-2) Credit 3. Elements of programming and data display primarily through the MATLAB computing environment; includes an introduction to statistics and hypothesis testing with MATLAB. Prerequisites: Jr or sr classification or approval of Instructor.

11. As currently in course inventory:

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b. Change to:

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Approval recommended by:

Date: 4/27/15

Department Head or Program Chair (Type Name & Sign)

Chair, College Review Committee

Date: 5/11/15

Date of college

Submitted to Coordinating Board by:

Chair, CC or UCC

Date: 6/14/15

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu.
Curricular Services - 08/14
MARS 303 Computing and Data Display

The first change is to take the word introduction out of the title since this is a junior level course. Some major changes to the course include taking FORTRAN out and putting in some statistics, all in the context of programming with MATLAB, which was already a part of the course. This software is heavily utilized by scientists and is preferred by oceanographers, and still provides an opportunity to write and debug in a procedural programming language. The exposure to some statistics is desirable for the marine science majors, especially those on the geological track.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   - Undergraduate [✓] Graduate [ ] First Professional (DVM, M.D., J.D., Plan B), D.V.M.
2. Request submitted by (Department or Program Name):
   - Marine Sciences
3. Course prefix, number and complete title of course:
   - MARS 410 Introduction to Physical Oceanography

   Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

4. Change requested:
   a. Prerequisite(s): From: MATH 251, PHY 208 to OCNG 251, MARS 262, MATH 152, PHY 208, Jr or sr or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   - Yes [ ] No [✓]

6. If grade type is changing for existing course, indicate the new grade type:
   - Grade: S/U [ ] YF [ ]

7. If this course will be stacked, please indicate the course number of the stacked course:
   - [ ]

8. I verify that I have reviewed the FAQs for Export Controls Basics for Distance Education (http://pfr.tamr.edu/resources/export-control-guidance)

9. Complete current course title and current catalog course description:
   - MARS 410. Introduction to physical oceanography, (3-0) Credit 3. Introduction to elements of the physics of the ocean, descriptive aspects and theoretical explanations of circulation, characteristic structure, and waves.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    - MARS 410. Physical oceanography, (3-0) Credit 3. Introduction to elements of the physics of the ocean, descriptive aspects and theoretical explanations of circulation, characteristic structure, and waves.

11. a. As currently in course inventory:

    Prefix | Course # | Title (excluding punctuation) |
    ------ | -------- | ----------------------------- |
    MARS  | 410     | INTRO TO PHYSICAL OCEANOGRAPHY |

    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | TICE Code | Level |
    ----- | --- | ----- | --- | ----------------- | ----------- | --------- |-------|
    3.00 | 0.00 | 0.00  | 3.00 | 4066070002       | 1810        | 010298    | 4      |

    b. Change to:

    Prefix | Course # | Title (excluding punctuation) |
    ------ | -------- | ----------------------------- |
    MARS  | 410     | PHYSICAL OCEANOGRAPHY         |

    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | TICE Code | Level |
    ----- | --- | ----- | --- | ----------------- | ----------- | ----------- | --------- |-------|
    3.00 | 0.00 | 0.00  | 3.00 | 4066070002       | 1810        | 16-17      | 010298 | 4     |

    Approval recommended by:
    Kyesong Park [Signature] [Date 10/2/15]
    Department Head or Program Chair (Type Name & Sign)

    Department Head or Program Chair (Type Name & Sign)
    (If cross-listed course)

    Submitted to Coordinating Board by:
    Chair, GC or UCC [Signature] [Date]

    Associate Director, Curricular Services [Signature] [Date]

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 08/14
MARS 410 Physical Oceanography

One change is to remove the word introduction from this senior level course. Also the prerequisites are changed to include OCNG 251, MARS 252 and a lower math requirement, MATH 152 (from MATH 251). It is desirable to have the students take the introductory oceanography course and laboratory prior to the upper level oceanography courses. Also the Marine Science-LICENSE OPTION students are not required to take MATH 251 but they are required to take MARS 410. This change then improves internal consistency.
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DKS, MD, JD, Ph.D., DRM)
2. Request submitted by (Department or Program Name): Marine Sciences
3. Course prefix, number and complete title of course: MARS 430 Geological Oceanography-Plate Tectonics

Attach a brief supporting statement for changes made in items 4a through 4d and 10 below.

4. Change requested
a. Prerequisite(s): From: GEO 104, Jr or Sr classification or approval of instructor
   To: GEO 101, OCNG 251, Jr or Sr classification or approval of instructor
b. Withdrawal (reason):
c. Cross-list with:

cross-listed courses require the signature of both department heads;

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

c. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F □ CRM
7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (https://pr.tamu.edu/resources/export-controls/export-contro layoffs-for-distance-education).
8. Complete current course title and current catalog course description:

430. Geological Oceanography - Plate Tectonics (3-0) Credit 3. Understanding the complex interactions of the earth system and the critical role that geological oceanography plays in these interactions, specifically the plate tectonic aspects of geological oceanography.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

a. As currently in course inventory:

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Approval recommended by:
Kyeong Park

Department Head or Program Chair (Type Name & Sign) Date: 10/24/15

Department Head or Program Chair (Type Name & Sign) Date: 10/24/15
(if cross-listed course)

Submitted to Coordinating Board by:
Chair, GC or UCC Date:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MARS 430 Geological Oceanography-Plate Tectonics

One change is to remove the word introduction from this senior level course. Also the prerequisites are changed to include OCNG 251. It is desirable to have the students take the introductory oceanography course prior to the upper level oceanography courses. The other prerequisite, GEOL 104, is changed to GEOL 101 to be consistent with that change in the curricula. GEOL 101 is a core science and GEOL 104 is not.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form instructions:
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (MED, MD, JD, Ph.D., LPMA)
2. Request submitted by (Department or Program Name): Marine Sciences
3. Course prefix, number and complete title of course: MARS 431 Geological Oceanography-Earth's Climate

4. Change requested:
a. Prerequisite(s): From: GEOC 104, Jr or Sr classification or approval of instructor  To: GEOC 105, OCNG 251, Jr or Sr classification or approval of instructor
b. Withdrawal (reason):
c. Cross-list with:

Cross-listed courses require the signature of both department heads.

5. Is this an existing core curriculum course? [ ] Yes  [X] No
6. If grade type is changing for existing course, indicate the new grade type:  [ ] Grade  [ ] S/U  [ ] P/F (CLIMB)
7. If this course will be stacked, please indicate the course number of the stacked course: [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://www.tamu.edu/resource/export-control-export-control-basics-for-distance-education).
8. Complete current course title and current catalog course description:
431. Geological Oceanography - Earth's Climate (3-0) Credit 3. Understanding the complex interactions of the earth system and the critical role that geological oceanography plays in these interactions, specifically the paleoceanographic/climate change aspects of geological oceanography.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. As currently in course inventory:

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b. Change to:

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign)  Date

Chairs, College Review Committee  Date

Department Head or Program Chair (Type Name & Sign) (of cross-listed course)  Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MARS 431 Geological Oceanography-Earth’s Climate

One change is to remove the word introduction from this senior level course. Also the prerequisites are changed to include OCNG 251. It is desirable to have the students take the introductory oceanography course prior to the upper level oceanography courses. The other prerequisite, GEOL 104, is changed to GEOL 101 to be consistent with that change in the curricula. GEOL 101 is a core science and GEOL 104 is not.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate + Graduate + Professional

Submit original form and attachments.

Form Instructions

1. Course request type:
   - [ ] Undergraduate
   - [ ] Graduate
   - [ ] First Professional (MD, JD, PharmD, D.V.M.)

2. Request submitted by (Department or Program Name):
   Marine Sciences

3. Course prefix, number and complete title of course:
   MARS 440 Chemical Oceanography

4. Change requested:
   - [ ] Prerequisite(s): From CHEM 102, Jr or Sr classification or approval of instructor
   - [ ] CHEM 102, OCN 251, Jr or Sr classification or approval of instructor
   - [ ] Withdrawal (reason):

5. Cross-list with:
   - [ ] Prerequisite(s): CHEM 102, Jr or Sr classification or approval of instructor
   - [ ] CHEM 102, OCN 251, Jr or Sr classification or approval of instructor

6. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11 a and b for a change in title.

7. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11 a and b. Attach a course syllabus.

8. Cross-listed courses require the signatures of both department heads.

9. Complete current course title and current catalog course description:
   - [ ] 440, INTRODUCTION TO Chemical Oceanography
   - [ ] 3.0 Credit 3. Introduction to chemical processes in the marine environment. Composition of sea salt, chemical specification of dissolved material in the ocean. Biochemistry of oxygen, major nutrient elements, and trace metals in the surface and deep ocean. Formation, chemical composition, and alteration of detrital material in the marine sediments. Simple models which relate ocean chemistry to the circulation of large masses of water. Radiocarbon and stable isotopes in chemical

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    - [ ] 440. Chemical Oceanography
    - [ ] 3.0 Credit 3. Composition of sea salt and dissolved material in the ocean; biochemical and measurements of oxygen, nutrient and other major elements, trace metals, and radiocarbon; formation, composition, and alteration of detrital material in the marine sediments and other chemical processes; simple models relating ocean chemistry to the circulation of large masses of water. Prerequisites: CHEM 102, OCN 251, Jr or Sr classification or approval of instructor.

11. As currently in course inventory:

   a. Prefix: MARS 440  
      Title: INTRO TO CHEMICAL OCEANOGRAPHY  
      Lect. Lab Other SCI CIP and Fund Code Admin Unit FICE Code Level
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   b. Change to:
      Prefix: MARS 440  
      Title: CHEMICAL OCEANOGRAPHY  
      Lect. Lab Other SCI CIP and Fund Code Admin Unit Acct. Year FICE Code Level
      3.00 0.00 0.00 3.00 4006070002 1810 18 17 0 0 2 9 8 4

   Approval recommended by: [Signature]

   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College of Science Date

   Department Head or Program Chair (Type Name & Sign) (if cross-listed course)

   Submitted to Coordinating Board by: [Signature]

   Chair, GC or UCC Date

   Associate Director, Curricular Services Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 453-8211 or sandra.williams@tamu.edu.
Curricular Services – 08/14
MARS 440 Chemical Oceanography

One change is to remove the word introduction from this senior level course. Also the prerequisites are changed to include OCNG 251. It is desirable to have the students take the introductory oceanography course prior to the upper level oceanography courses. The catalog description was changed slightly to better reflect the currently preferred style.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   ✓ Undergraduate □ Graduate □ First Professional (DVM, M.D., PharmD, DPA)
2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
3. Course prefix, number and complete title of course:
   MARS 460 Capstone Undergraduate Research Experience

Attach a brief supporting statement for changes made to items #1 through #10 below.

4. Change requested
   a. Prerequisite(s): From: jr or sr class or approval of instructor To: concurrent enrollment in MARS 491 or sr class or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes □ No

6. If grade type is changing for existing course, indicate the new grade type:
   ✓ Grade S/U □ P/F (elective)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://exportcontrols.tamu.edu/)

8.  

9. Complete current course title and current catalog course description:
   MARS 460. Modern Oceanographic Methods. (3-6) Credit 5. This course will provide students with hands-on experience with modern oceanographic tools and data analysis techniques. Focus is on the four major oceanographic disciplines, i.e., geology, chemistry, physics, and biology. Students will receive the necessary theoretical background, collect and analyze their own data and learn how to prepare scientific reports summarizing their work.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    MARS 460. Capstone Undergraduate Research Experience I. (1-3) Credit 1. Methodology for research outlines, organization and strategies; research ethics, writing and presentation of results. Concurrent enrollment in MARS 491, senior standing or permission of the instructor (note, additional prerequisites may be required by faculty mentors, as related to the nature of their 491 projects)

11. a. As currently in course inventory:

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Department head or Program Chair (Type Name & Sign) Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Effective Date

Questions regarding this form should be directed to Stan Williams at 845-8201 or stanwilliams@tamu.edu.
Curricular Services – 08/14
MARS 460 - Fall 2016
Capstone Undergraduate Research Experience I
Lecture: TBA (time and place)
Professor: Dr. Tim Dellapenna, dellapet@tamug.edu
Office: OCSB 341
Telephone: 409-740-4952
Office Hours: by appointment

This course is part of the MARS Capstone Undergraduate Research Experience (MARS-CURE). The MARS-CURE includes MARS 460, 461 and two semesters of MARS 491. This class focuses on

Learning Outcomes:
- Describe the process for setting up and organizing a research project
- Design and execute research experiments
- Develop experimental methods
- Interpret and relate experimental results

Course Description and Prerequisite—Methodology for research outlines, organization and strategies; research ethics, writing and presentation of results. Concurrent enrollment in MARS 491, senior standing or permission of the instructor (note, additional prerequisites may be required by faculty mentors, as related to the nature of their 491 projects)

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<td>Laboratory and Field Safety</td>
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<td>Research proposal Presentation</td>
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<td>Final project update for semester and project plans for following semester</td>
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Supplemental readings will be posted on the class website

Because this is a field class, the schedule is very fluid and will be changed according to a variety of factors, including weather, availability of vessels and equipment, and class progress.
Research Projects:
Each member of the class will work on an individual research project. Some of you will be
working on related projects and if this is the case, all project data will be made available to each
participant via Blackboard or other electronic resources. Each student will be responsible for
writing their own proposal and each individual member will be responsible for writing their own
final paper (based off of community data sets as well as their own data, depending on the
project). In addition, each student will be responsible for writing an abstract and presenting a
poster at the TAMUG Research Symposium in late April.

Each project will be a major undertaking but will be designed to be something that can be
accomplished in two semesters. Please note, unlike other classes, many of these projects are a
component of an on-going research project in your mentor’s research lab and may become part
of a peer reviewed publication. As such, we are depending on you to provide professional work
and will not tolerate anything less in both your final product and your effort. Depending on your
contribution and how your effort fits into the larger project, you may be included as a co-author
of the papers and abstracts.

Class design- the majority of this class will focus on your projects and the lab will be open for
you to work during non-class hours. Your projects will take up more than the designated class
time slots and you will need to allot additional time for your lab work on your own. Note, for
each 491 credit hour, you will be expected to work a minimum of 3 hours per week on your
project; that means at least 6 hours per week on your own. You will be responsible for
scheduling the work on your project and negotiating this schedule with your research mentor and
their respective lab members. NOTE- WE ARE ALL BUSY PEOPLE AND WILL NOT
TOLERATE NO-SHOWS OR OTHER UNPROFESSIONAL BEHAVIOR.

Grading
Proposal presentation 30%
Proposal updates 40%
Participation 30%
Grade Distribution: A=90-100%, B=80-89.9%, C=70-79.9%, D=60-69.9%, F=<60%

EXPECTATIONS OF THE PROFESSOR
This course is not an introductory marine science class, it is an advanced, 400 level Marine
Sciences class. As such, I have the expectation that upon entering my class the student have a
basic understanding of marine science. The instructor will not be providing a review of this
material. This class is a professional research class. The professor expects students to be on-
time with assignments and for assignments to be presented in an organized and professional
format and manner and that when you make presentations you are dressed professionally.
THE AMERICANS WITH DISABILITIES ACT
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/Disabilities.html.

ACADEMIC DISHONESTY
For many years Aggies have followed a Code of Honor, which is stated in this very simple verse: "Aggies do not lie, cheat, or steal, nor do they tolerate those who do." As such, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. The Aggie Honor and the Scholastic Dishonesty sections in the TAMUG University Rules handbook will be the standard upon which scholastic integrity is maintained in this course. For additional information: http://www.tamug.edu/honorsystem/. In this class there will be zero tolerance for cheating or dishonesty.

STATEMENT ON ABSENCES
Information concerning absences is contained in the University Student Rules Section 7, http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45). An excused absence does not obviate the need to learn the material missed.
Memo to students on the mechanics and structure of the MARS 460-461 and linked 491 MARS Capstone Undergraduate Research Experience.

The Marine Science-Capstone Undergraduate Research Experience (MARS-CURE) is required of all Marine Science (MARS) majors. The MARS-CURE consists of a two semester, research-based sequence of classes, consisting of MARS 460, 461 and enrollment during both Fall and Spring of MARS 491 (2-credits each). In the Fall the students will register for MARS 460. In addition, the student will select a faculty mentor and register with their respective mentor or two credits each for Fall and Spring in MARS 491. Currently, the Marine Science Research Faculty are: Drs. Amon, Anis, Dellapenna, Kaiser, Santschi, van Hengstum, Park, Wang. In addition, if there is a different mentor that wishes to work with the student, for example from the MARB Department, than, with permission of the MARS 460 instructor, they may select this mentor for the entire sequence.

During the Fall semester, the focus will be on developing a research project, research proposal, and beginning the research. The Spring Semester will focus on completing the research projects and presenting their research at the TAMUG Research Symposium as a poster, as well as giving an oral presentation at the Annual MARS Dept. Retreat, as well as writing a final paper.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:  □ Undergraduate  □ Graduate  □ First Professional (DOE, AGI, JDL, PMN, or PAO)
2. Request submitted by (Department or Program Name): Marine Transportation
3. Course prefix, number and complete title of course: MART 202 Naval Architecture II

4. Change requested:
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

   Concluded courses require the signature of both department heads.
   For parallel courses, indicate the new course title and complete course description in item 10. Complete item 11a and b for a change in title.
   d. Change in course title and description: Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

5. Is this an existing core curriculum course?
   □ Yes  □ No

6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade  □ SYU  □ EFD (CLAD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Controls in Distance Education (http://ipr.tamu.edu/resources/export-control/export-controls-basic-faq-for-distance-education).

9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): 

11. a. As currently in course inventory:

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   Approval recommended by:  
   [Signature]  9/14/15  

   Department Head or Program Chair (Type Name & Sign)  Date  

   Department Head or Program Chair (Type Name & Sign)  Date  
。(For cross-listed course)

   Submitted to Coordinating Board by:  
   [Signature]  10-19-15  

   Date  Effective Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  

   Curricular Services – 08/14
To: UCC

From: Capt. Augusta Roth, Department Head of Marine Transportation, Texas A&M Maritime Academy at Galveston

Date: October 26, 2015

RE: MART 202 Naval Architecture II 3-0 to 2-2

MART 202 Naval Architecture II is requesting a change from 3-0 to 2-2. The course is a math based course instructing future deck officers aboard waterborne vessels to determine vessel’s stability. This course requires more time to fully explain the process to work stability math problems. Changing the 3rd hour of lecture to a 2 hour lab will provide students with ample time to ask questions during explanation of problems, plus allow time for students to be tested on the more complex long forms required to be proficient in determining ship stability.
Instructor: Capt. James P. Cleary
E-mail: clearyj@tamug.edu

Office: KIRK Bldg.’3001’ Room 109
Phone: 409-741-4031

Office Hours:
Lecture: Time: (2 one hour lectures) Room:
Lab: Time: (1 two hour lab) Room:

Course Description: Ship’s line drawing and form calculations; principles of flotation and buoyancy; inclining experiments; free surface; transverse stability; trim and longitudinal stability; motion of ship in waves, seaway and dynamic loads; ship structure tests. Labs focus on manual and computer-based stability and trim calculations using stability calculation formulas and standard industry-based software.

Prerequisite: MART 200 or NAUT 200, MART 201.

Student Learning Outcomes: Upon completion of this course the student will demonstrate a working knowledge of stability, trim and stress tables, diagrams and stress calculating equipment. Students will find and calculate centers of gravity, metacenter, centers of buoyancy, and metacentric heights (GM) of vessels. Students will: evaluate how to safely load and unload a normal vessel as well as a vessel in a damaged condition, demonstrate the fundamental actions to be taken in the event of a partial loss of intact buoyancy and describe the importance of maintenance/restoration of watertight integrity.

In addition: all students will be assessed on their knowledge, understanding, and proficiency of the following specific STCW (Standards of Training, Certification, and Watchkeeping) tasks as per USCG NVIC 12-14:


10.1.A: Monitor the loading, stowage, securing and unloading of cargoes and their care during the voyage. Knowledge of the effect of cargo including heavy lifts on the seaworthiness and stability of the ship.

10.2.A: Monitor the loading, stowage, securing and unloading of cargoes and their care during the voyage. Knowledge of safe handling, stowage and securing of cargoes including dangerous, hazardous and harmful cargoes and their effect on the safety of life and of the ship.

(As per National Examination Topics 46 CFR 11.910 Table 2)

Text, References, & Materials – Required

- Stability and Trim for the Ship’s Officer, George (4th Edition)
- Stability Data Reference Book (Merchant Marine Deck Examination Reference Material)
- Non-programmable Calculator with Trig Functions

Reference:
Grades | Final Grade
---|---
Exams (1 and 2 @ 20% each) | 40 %
Exam 3 | 30 %
STCW Assessments (3 @ 10% each) | 30 %

A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, F = below 60%.

Students must earn a grade of C (70%) or better as per USCG/STCW License Course!

All STCW Assessments must be passed with a grade of 70% or better. If you score below 70%, you will be permitted to re-take the assessment once, but the first grade will be used as part of your class grade.

Failure to obtain 70% for the course, or assessments, will require you to re-take the class!

Electronic devices of any kind (laptops, PDAs, tape recorders, etc.) are not allowed in the classroom. All cell/smart phones are to be turned off/vibrate before entry to the classroom.

Statement on Absences: Information concerning absences is contained in the University Student Rules Section 7. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

ATTENDANCE (100%) IS MANDATORY FOR MART 202 due to STCW requirements.

In other words; you are expected to attend each and every class with no missed classes!
Any unexcused absences may result in an “F” which will cause you to re-take the class.

In accordance to STCW, all work missed due to excused absences must be made up within one week of absence!! This includes contact hours.

http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html

If you are absent from class for any reason:
1. Send me an e-mail with a short explanation of why you are not in class. (clearyj@tamug.edu)
2. Fill out the “Explanatory Statement for Absence from Class” form completely and hand it to me the very next class after absence (or sooner). The form can be found in class materials on the e-learning site.

All students are expected to wear the proper and complete uniform for each class!

MART 202 Course Outline (Subject to Change) SPRING 2016

WK 1: Read Ch. 1 & 2 - What is stability? Introduction
WK 2: Read Ch. 2 & 3 - Hull Forms & Calculation of KG (STCW Topic)
WK 3: Read Ch. 4 - Static Equilibrium and Stability. Finding KM (STCW Topic)
WK 4: Read Ch. 5- Static Equilibrium and Stability. Finding GM (STCW Topic)
WK 5: Read Ch. 6- The Inclining Experiment & Calculating GZ for Small Angles (STCW Topic) Exam #1 (Ch. 1 – 5)
WK 6: Read Ch. 7 - Stability at Large Angles of Inclination & Corrections to Stability Curves
WK 7: Read Ch. 9 - Trim and Longitudinal Stability (STCW Topic)

WK 8: Read Ch. 9 - Trim and Longitudinal Stability (STCW Topic)
Read Ch. 8 - Flooding and Subdivision. Free Surface Effect (STCW Topic)

WK 9: Read Ch. 10 - Longitudinal Hull Strength (STCW Topic)

WK 10: Read Ch. 12 - Ship Strength and Damage Stability (STCW Topic)
Exam #2 (Ch. 6, 7, 8, & 9)

WK 11: Read Ch. 13 - Practical Stability & Trim Considerations
STCW Assessment 1 Friday

WK 12: Read Ch. 13 - Practical Stability & Trim Considerations
STCW Assessment 2 Friday

WK 13: Read Ch. 14 - Stability Requirements for Vessels Loading Bulk Grain

WK 14: Read Ch. 14 - Stability Requirements for Vessels Loading Bulk Grain
STCW Assessment 3 Friday

WK 15: Exam #3 (Ch. 10, 12, 13, & 14)

Scholastic Dishonesty: For many years Aggies have followed a Code of Honor: "Aggies do not lie, cheat, or steal, nor do they tolerate those who do." As such, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. The Aggie Code of Honor and the Scholastic Dishonesty sections in the TAMUG University Rules handbook will be the standard upon which scholastic integrity is maintained in this course. **Academic dishonesty infractions will result in failure of this course as a minimum sanction.**

Aggie Honor System: Aggie Honor Code: "An Aggie does not lie, cheat, or steal or tolerate those who do." Upon accepting admission to Texas A&M University at Galveston, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMUG community from the requirements or the processes of the TAMUG Honor System. For additional information: [http://www.tamug.edu/honorsystem/](http://www.tamug.edu/honorsystem/).

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit [http://www.tamug.edu/counsel/Disabilities.html](http://www.tamug.edu/counsel/Disabilities.html).

Statement on the Family Educational Rights and Privacy Act (FERPA): FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student's social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

Statement on Course Evaluations
The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. You are encouraged to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at [http://pica.tamu.edu](http://pica.tamu.edu) and the howdy portal,
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

Form Instructions
1. Course request type:  
   - [ ] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (MD, JD, Ph.D, DVM)
2. Request submitted by (Department or Program Name):  
   Marine Transportation
3. Course prefix, number and complete title of course:  
   MART 350 Commercial Cruise Internship
4. Change requested:  
   a. Prerequisite(s):  
      From:  
      To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  
      Cross-listed courses require the signatures of both department heads.
   d. Change in course title and description:  
      Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 10. Complete item 11 a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?  
   [ ] Yes  
   [ ] No
6. If grade type is changing for existing course, indicate the new grade type:  
   [ ] Grade  
   [ ] S/U  
   [ ] P/F (CLAS)
7. If this course will be stacked, please indicate the course number of the stacked course:
   [ ] I certify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://tvr.isn.edu/resources/export-  
8. controls/exports-control-basics-for-distance-education/)
9. Complete current course title and current catalog course description:

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:  
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    Course H  
    Title (excluding punctuation)  
    Lex. Lab Other SCH CIP and Fund Code Admin. Unit PTCE Code  
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    b. Change to:  
    Prefix  
    Course H  
    Title (excluding punctuation)  
    Lex. Lab Other SCH CIP and Fund Code Admin. Unit Admin. Year PTCE Code  
    0 1 0 2 9 8  
    Approval recommended by:  
    August D. Roth  
    Department Chair or Program Chair (Type Name & Sign)  
    Date  
    Chair, College Revenue Committee  
    Dean of College  
    Date  
    Submitted to Coordinating Board by:  
    Chair, GC or UCC  
    Date  
    Effective Date  

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu. 
Curricular Services – 08/14
To: UCC

From: Capt. Augusta Roth, Department Head of Marine Transportation, Texas A&M Maritime Academy at Galveston

Date: October 26, 2015

RE: MART 350 Grade Change to S/U

MART 350 is the Commercial Cruise Internship. This course has a written project that requires multiple tasks to be completed and written review for course completion. The project is not an exact reflection of what the student may have learned over the course. It is more reasonable to grade the course as a Satisfactory or Unsatisfactory to ensure consistency of the full evaluation.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, Ph.D., DVM)
2. Request submitted by (Department or Program Name): Department of Liberal Studies/Maritime Studies Program
3. Course prefix, number and complete title of course: MAST 352 MARITIME CRAFTSMANSHIP

4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? ☐ Yes  ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade  ☐ S/U  ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/basics-for-distance-education).
8. Complete current course title and current catalog course description: Maritime Craftsmanship
   An exploration of various crafts, skills and aesthetic/design used in and supporting the maritime world; hands-on activities and practical experience of various skills and processes, using traditional tools required to put a ship to sea; from carpentry to rope-making, sewing canvas sails to making blocks.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Crafts of the Maritime World
   An exploration of various crafts, skills and aesthetic/design used in and supporting the maritime world; hands-on activities and practical experience of various skills and processes, using traditional tools required to put a ship to sea; from carpentry to rope-making, sewing canvas sails to making blocks.

11. a. As currently in course inventory:

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Approval recommended by:
JoAnn DiGeorgia-Lutz  Date: 10/22/15
Chair, College Review Committee

Department Head or Program Chair (Type Name & Sign)  Date: 10/22/15
Dean of College

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Supporting Statement

CHANGES TO MAST 352

We are submitting the change of MAST 352 from the present name of “Maritime Craftsmanship” to the new name of “Crafts of the Maritime World”. The reason for this change is that the new name will better reflect the redesigned curriculum for the course. In order to facilitate the addition of the course to the Core Curriculum as a Creative Arts course, the content has been broadened to include the design and production of arts and crafts associated with maritime culture. Further, the term craftsmanship puts the emphasis on the worker, rather than on the craft itself.
Texas A&M University

Core Curriculum Cover Sheet

Initial Request for a course to be considered for the Fall 2015 Core Curriculum

1. This request is submitted by (department name): Department of Liberal Studies/Maritime Studies

2. Course prefix and number: MAST 352

3. Texas Common Course Number: 

4. Complete course title: Crafts of the Maritime World

5. Semester credit hours: 3 SCH

6. This request is for consideration in the following Foundational Component Area:
   - ☑ Communication
   - ☑ Mathematics
   - ☑ Life and Physical Sciences
   - ☑ Language, Philosophy and Culture
   - ☑ Creative Arts
   - ☑ American History
   - ☑ Government/Political Science
   - ☑ Social and Behavioral Sciences

7. This course should also be considered for International and Cultural Diversity (ICD) designation:
   - ☑ Yes
   - ☐ No

8. How frequently will the class be offered? Once per year

9. Number of class sections per semester: 1

10. Number of students per semester: 15 - 20

11. Historic annual enrollment for the last three years: 15 10 10

This completed form must be attached to a course syllabus that sufficiently and specifically details the appropriate core objectives through multiple lectures, outside activities, assignments, etc. Representative from department submitting request should be in attendance when considered by the Core Curriculum Council.

13. Submitted by: 
   - [Signature]
   - Course Instructor
   - [Date] 9-15-2015

14. Approvals: 
   - [Signature]
   - Department Head
   - [Date] 9-15-15

15. College Dean/Designee
   - [Signature]
   - [Date] 10/20/15

For additional information regarding core curriculum, visit the Texas Higher Education Coordinating Board website at www.thecb.state.tx.us/corecurriculum2014

See form instructions for submission/approval process.
Texas A&M University
Core Curriculum
Initial Request for a Course Addition to the Fall 2015 Core Curriculum

Foundational Component Area: Creative Arts

In the box below, describe how this course meets the Foundational Component Area description for Creative Arts. Courses in this category focus on appreciation and analysis of creative artifacts and works of human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art.

The proposed course must contain all elements of the Foundational Component Area. How does the proposed course specifically address the Foundational Component Area definition above?

The wooden sailing vessel is more than just a transportation vehicle resulting from the utility needs of material culture. It is a symbolic representation of strength, ability, achievement, and forms an important part of the social identity of its owners, creators, and even the society from which it was produced. The art of crafting artifacts associated with the maritime culture requires the creative synthesis of maritime knowledge, craftwork form and function, and an artistic skill utilizing the shipbuilder's toolkit. Insofar as such efforts are driven by the notion of teamwork on the seas, the community labor of sailing necessitates innovative solutions and organizational communication to craft artifacts specifically associated with nautical concepts and shipboard needs. It is for these very reasons that some of the most treasured artifacts of maritime history are those associated with the daily labor functions of shipwork such as scrimshaw whale stamps, rope/knot weaves, and sails and pennants.

Core Objectives

Describe how the proposed course develops the required core objectives below by indicating how each learning objective will be addressed, what specific strategies will be used for each objective and how student learning of each objective will be evaluated.

The proposed course is required to contain each element of the Core Objective.

Critical Thinking (to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information):

This course develops critical thinking by asking students to interpret and apply lecture material to hands-on activities; through individual and group projects, the student will formulate a well-grounded appreciation of the time and effort expended in accomplishing individual tasks; activities will provide students with a sort of “cultural literacy” about the crafts of the maritime world from the Age of Sail. The purpose of this class is not to develop proficiency regarding traditional shipbuilding trades. However, students will have a clearer understanding of the inherent difficulties that different craftsmen of different times and cultures had to endure while building large ships using, in many cases, only a few hand tools. Being told a small ship like the ancient Greek Kyrenia ship (c. 400 B.C.) required the crafting of thousands of mortise-and-tenon joints by hand will have a much stronger impact on a student who has crafted one such joint than on one who has merely seen a picture of such a joint in a book.

Communication (to include effective development, interpretation and expression of ideas through written, oral and visual communication):
Texas A&M University

Core Curriculum

Initial Request for a Course Addition to the Fall 2015 Core Curriculum

The creation of maritime related artifacts is often at once an effort driven by both functional need and sociocultural expression. This course will develop in students the vital notion of that what is built for nautical use is a lasting and codified construct, one in which an audience of mariners will hopefully understand the function and form intended by the builder. They will understand that individual skill, focus, and attention to detail must be part of a larger community effort. Thus, group projects in this class foster communication and cooperation as the result of peer feedback within goal-centered transactional communication. As part of the grade for each project the student will write a short description of each project describing the purpose, tools, setup, layout, safety, difficulties and other items of consideration about the project; these will be evaluated for correctness, conciseness, clarity, and practicality.

Teamwork (to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal):

Maritime craftsmanship is an art form of millennia founded in the concept of teamwork. This course is designed to enhance students' ability to work within teams. To this end, students will strengthen their appreciation for understanding and considering differing points of view within an organizational structure. Such a negotiation of a collective vision is vital to shipbuilding in particular, and group communication and teamwork generally. Several projects throughout the semester will be used to build teamwork skills. These include building a tool, bench or support structure used in the class and for future classes, rope making, and teamworking shipboard block and pulley mechanisms for large project construction. Criterion for evaluation completion of the project according to the instructions, consistency, cooperation, and mutual support during construction.

Social Responsibility (to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities):

Ships travel the world and, therefore, engage cultures that are usually very different than the ones from which they came. Intercultural communication is a key tool in the successful effort of maritime industries. This course enhances social responsibility by engendering in the students the concept that the artifacts they create not only communicate functionality, but often messages about the technical capabilities, aesthetic sensibility, and even the ideological bent of the culture that produced it. That is to say, each culture has its own unique way of expressing themselves through hull shapes, joining methods, tools, and so forth. This course explores cultural variation in the art of maritime craftsmanship. Students will be expected to express such cross-cultural understanding of maritime and nautical creative artifacts as produced by artists and artisans around the globe. These social awareness skills will show a broadened awareness of how ideological discourse has influenced maritime craftsmanship cross-culturally, and these skills will be evaluated as they are expressed in the products and discussions produced for the class.

Please be aware that instructors should be prepared to submit samples/examples of student work as part of the future course recertification process.
MAST352
Crafts of the Maritime World
Spring 2017

Instructor:  Mr. Thomas J. Oertling
Office:  SAGC 402: The Archaeology Lab.
Hours:  TBA or by appointment
Phone:  409-741-4026
Email:  oertlint@tamug.edu
Meeting time & location TBA

Course Format: Class meets one day a week for 3 hours; 1 hour lecture, 2 hours hands-on activity.

Prerequisites: Junior or senior classification AND permission of instructor.

Course Description: An exploration of various crafts, skills and aesthetic/design used in and supporting the maritime world; hands-on activities and practical experience of various skills and processes, using traditional tools required to put a ship to sea; from carpentry to rope-making, sewing canvas sails to making blocks.

Course Overview: The wooden sailing vessel is more than just a transportation vehicle resulting from the utility needs of material culture. It is a symbolic representation of strength, ability, achievement, and forms an important part of the social identity of its owners, creators, and even the society from which it was produced. The art of crafting artifacts associated with the maritime culture requires the creative synthesis of maritime knowledge, craftwork form and function, and an artistic skill utilizing the shipbuilder’s toolkit. Insofar as such efforts are driven by the notion of teamwork on the seas, the community labor of sailing necessitates innovative solutions and organization communication to craft artifacts specifically associated with nautical concepts and shipboard needs. It is for these very reasons that some of the most treasured artifacts of maritime history are those associated with the daily labor functions of ship work such as scrimshaw whale stamps, rope/knot weaves, and sails and pennants.

Student Learning Outcomes:

- Recognize different types of wood and the use of specific species in ship building, and the skills necessary to make sails and other uses of cloth and canvas.
- Identify and explain proper use, terminology, care and maintenance, and the capabilities and limitations of tools used in maritime craftsmanship.
• Discover block-making; the basic mechanical device that gave sailors an advantage in moving and lifting sails and spars.
• Examine the construction of a sailing rig using nothing more than wood and fiber rope.
• Assemble, collect and twist fibers to create strands and yarns that make up rope.
• Select from historical patterns to create types of fancy knot work used to decorate ships and sailors’ personal possessions, and to carve trailboards, nameboards and figureheads.

Core Curriculum Objectives

Critical Thinking
Students will be asked to interpret and apply lecture material to hands-on activities through individual and group projects.

Communication
Students will participate in group projects, collaborate and formulate the plan for the project, and write a short description of each project describing the purpose, tools, setup, and other items of consideration about the project.

Teamwork
Several group projects throughout the semester will be used to build teamwork skills. These include building a tool, bench or support structure used in the class and for future classes; rope making, and team working shipboard block and pulley mechanisms for large project construction.

Social Responsibility
This course enhances social responsibility by engendering in the students the concept that the artifacts they create not only communicate functionality, but often messages about the technical capabilities, aesthetic sensibility, and even the ideological bent of the culture that produced it.
Texts:

Course Grade Determination:
Each student's grade will be based on his/her performance on three semester exams (20% each for a total of 60%), weekly activity assignments (20%), and a final exam [not cumulative] (20%). Class attendance and active participation is expected. Reading assignments are to be completed before the topic is discussed in class.

Grading will conform to standard University grading scale: A = 90 – 100, B = 80 – 89, C = 70 – 79, D = 60 – 69, Below 60 = F.

Absences:
Information concerning absences is contained in the University Student Rules Section 7 (http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

Attendance and Make-Up Policies:
Make-up Policy: If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class for which a University excused absence has been issued by the Vice President for Academic Affairs.
2) Death or major illness in a student’s immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
a) Injury or illness of three or more class days:
Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)

b) Injury or illness of less than three class days:
Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:

(i) Texas A&M University Explanatory Statement for Absence from Class form available at http://www.tamug.edu/stulife/Absence%20Statement.pdf or (ii)
Confirmation of visit to a health care professional affirming date and time of visit.

7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

The Americans with Disabilities Act (ADA):
The Americans with Disabilities Act (ADA) is a federal non-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this law requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/services/dssprocedures.htm.

Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.” Upon accepting admission to Texas A&M University at Galveston, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. The student’s commitment to the Honor Code applies to examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMUG community from the requirements or the processes of the TAMUG Honor System. For additional information: <http://www.tamug.edu/honorsystem/>.
Family Educational and Rights to Privacy Act (FERPA)
FERPA is a federal law designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student's social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your confidentiality.

Course Evaluations:
The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology.

Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at [http://pica.tamu.edu](http://pica.tamu.edu), your Howdy portal, or by scanning:

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Course Schedule

Week 1  Introduction:

**Safety:** Safety rules for the lab will be reviewed. Your personal safety in using **SHARP** tools is your personal responsibility. Don’t be foolish and don’t be careless.
- Respect for the tools
- Proper use

**Discussion of art in the workplace,**

**Wood:**
- Cellular structure, variety of trees, hardwood vs. softwood; figure, grain, pattern.
- Traditional carpentry/shipbuilding woods; compass timber vs. straight grained timber;
- Compression/tension wood; specific gravity
- Activity: learn to identify common woods used in the maritime world

Week 2  Tools

Basic tools of the shipwright and student activity [squaring timber and mortise and tenon join]

- Ax, adze, hatchet:
  - Square a timber
- Chisel and mallet:
  - Cut a mortise
- Saw:
  - Saw block, cut tenons
- Drills:
  - Drill hole for tenon peg
Drawknife, spokeshave     Make tenon peg

Week 3
Tools cont'd

Week 4
Exam 1
Fibers, cord, Line
How line is made—fibers, strands, yarns, cord, line
Use of different fibers makes different quality of line.
How tightness of twist affects strength of line.
The difference between cord/twine and line
Activity: Making line, Students will take fibers and make strands, then yarns, then line.
The line made will then be tested for strength

Week 5
Fibers, cord, Line, cont'd
Exam 1, everything from the beginning of the semester

Week 6
Canvass
Canvass was used to make sails and various other items on board.
Ditty bags, clothing, wind scoops, awnings, etc.
Tools of a sailmaker—palm and needle, canvas hook, Seam rubber
Activity: make ditty bag.

Week 7
Canvass, cont'd

Week 8
Exam 2
Knotwork
Knots were tied by sailors in the performance of their duty on ship, but also used for decorative
purposes on personal gear.
Different decorative knots
Tools—fid, marlinspike, serving mallet
Activity: Tie a lanyard, handle for the ditty bag made in the previous session.

Week 9
Knotwork, cont'd
Splices, eye and short splice, whippings and seizings, grommets
Activity: continue working on lanyards for the ditty bags
Activity: Net-making. Nets were used in fishing and for various jobs on commercial vessels. This
is one of the skills that all sailors had to have.

Week 10
Block-making
Making blocks which when used together formed tackles, were made by skilled craftsmen in shipyards and maritime communities.

Activity: Students will create two single blocks, including shells, sheaves, and pins, and then strop them and rig them to do work

Week 11
Block-making, cont’d
Exam 2, everything since Exam 1.

Week 12
Exam 3
Ship Carving
Sculptors and Carvers made figureheads, trailboards and nameboards that decorated ships bows and sterns. Various patterns and methods were used to create these.
Activity: Carve initials on a piece of mahogany or a standard pattern used in ship carving: scroll, scale, leaves, fillets, spirals, etc.

Week 13
Ship Carving, cont’d

Week 14
Conclusions, complete all projects, discussion of skills and arts in the Maritime world.

Final Exam, Cumulative TBA
TAMUG
Change in Curricula
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE BIOLOGY
BS IN MARINE FISHERIES
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   - ☐ Undergraduate
   - ☐ Graduate
   - ☐ First Professional (e.g., DVM, MD, PhD, etc.)

2. Request change for:  
   - ☐ Degree Program
   - ☐ Minor
   - ☐ Certificate

3. Request submitted by (Department or Program Name):  
   - Marine Biology

4. Program Designation and Name  
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   - B.S. in Marine Fisheries

5. Brief description of change:
   Specify which math courses will be accepted for MARF degree; update new name for oceanography lab.

6. Rationale for change:
   Previous catalog did not specify required math courses. The oceanography lab for science majors was given a new prefix and number. This lab is required for all MARF majors, so the degree evaluation and catalog needs to reflect these recent changes.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  
    ☐ Yes  ☐ No

   b. Current catalog curriculum with handwritten edits attached.  
    ☐ Yes  ☐ No

   c. Current Howdy degree evaluation with handwritten edits attached.  
    ☐ Yes  ☐ No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
    ☐ Yes  ☐ No

   b. If yes, degree program hours will change from: _______ to: _______

   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
    ☐ Yes  ☐ No

9. If proposed changes affect other unit(s), are letters of support attached?  
    ☐ Yes  ☐ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December—UCOGC, January—Faculty Senate, February—President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]
[Name]
[Title]
[Date]

Chair, College Review Committee
[Signature]
[Name]
[Title]
[Date]
Curriculum in Marine Fisheries (MARF)

The Department of Marine Biology offers these three degree programs: Marine Biology (MARB), Marine Biology License Option (MARB/LO) and Marine Fisheries (MARF). These curricula are subject to the following rules and requirements:

- The student shall have earned at least a grade of C in BIOL 111 and 112. Students may not advance to BIOL 112 until a grade of C or better is earned in BIOL 111.
- Transfer students must have a minimum GPA of 2.5 or approval of the MARB Department Head to be admitted to the department. Transfer students with the required courses who meet the criteria listed above may be admitted directly into the MARB, MARB/LO and MARF degree programs.
- Preference for available seats in courses in the Department will be given to students who have been admitted to the degree program. If additional spaces are available, students from other departments for whom courses in the Department are on their program of study, and who meet the course prerequisites, may be enrolled.
- It is the student’s responsibility to satisfactorily complete prerequisite coursework before enrolling in more advanced courses.

The curriculum in Marine Fisheries provides educational opportunities in the biological sciences, with emphasis on principles of marine fisheries management. Ecology, taxonomy, zoogeography, culture, and general biology of commercial species are emphasized. Course offerings are structured to provide not only a strong basis of formal academic instruction but also considerable hands-on field and collection experience by taking advantage of the coastal location of the University. A strong preparation in the sciences is recommended.

Marine Fisheries graduates are prepared to work as fishery managers or research biologists for state and federal agencies, ecological consulting firms, industry, and educational institutions. Qualified degree recipients may undertake postgraduate studies in resource management, mariculture, systematics, seafood technology, and fisheries economics.

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<th>FRESHMAN YEAR</th>
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### JUNIOR YEAR

#### Fall Semester
- MARB 301 Genetics † .................................................. (3-3) 4
- MARB 303 Biostatistics † .............................................. (2-2) 3
- MARB 312 Field Ichthyology † ........................................... (2-3) 4
- MARB 435 Marine Invertebrate Zoology † † † ....................... (2-3) 4
- Total .......................................................... 15

#### Spring Semester
- OCNG 251 Oceanography † ........................................... (3-0) 3
- MARS 465 Oceanography Laboratory for Science Majors † † ....... (6-3) 1
- MARB 360 Marine Conservation Biology † ........................... (3-3) 4
- ECON 202 Principles of Economics .................................. (3-0) 3
- Elective in Language, Philosophy and Culture ....................... 3
- Total .......................................................... 14

### SENIOR YEAR

#### Fall Semester
- MARB 423 Mariculture † .................................................. (3-3) 4
- MARB 425 Marine Ecology † .............................................. (3-3) 4
- MARB 445 Marine Fisheries Management † ......................... (3-3) 4
- Elective in Creative Arts .................................................. 3
- Total .......................................................... 15

#### Spring Semester
- ENGL 210 Scientific and Technical Writing ......................... (3-0) 3
- MARB 460 Fisheries Population Dynamics † ........................ (3-3) 4
- MARB 482 Seminar † † † ................................................... (1-0) 1
- Directed Electives † † ...................................................... 7
- Total .......................................................... 15

**Total Curriculum Hours** .............................................. 120

### Notes for Marine Fisheries

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://www.marine.edu](http://www.marine.edu) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Languages, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

† Indicates required courses in the Marine Fisheries major. These courses will be used to compute the major GPR.

* - A grade of "C" or better is required before advancing to upper level courses.

† - Directed Electives must be selected from 300-400 level MARB courses.

‡ - The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses. Students who take MATH 151 instead of MATH 142 will have 121 credit hours.

** - Designated writing intensive courses.

◊ - There are two mathematics course requirements. The first is MATH 142 or 151. The other math course will be selected from MATH 141, 152, 152, or PHIL 240. Depending on the math sequence selected, the number of credits may vary by 1 or 2 credits, credit will not be given for both MATH 151 and MATH 142.

64
# Texas A&M University at Galveston Marine Fisheries

## FRESHMAN YEAR

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## SOPHOMORE YEAR

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## SENIOR YEAR

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## COMMENTS:

- **F (FALL)**
- **S (SPRING)**
- **SU (SUMMER)**

1. Required to have a 3 hour American History course. May choose from the following: HIST 105, 106, 226 or HIST 232.
2. Required to have a 3 hour Communication course. May substitute COMM 203 or ENGL 203.
3. Required to have 6 hours with ICD attribute in order to graduate. It is possible to use Language/Philosophy/Culture, Creative Arts, Social Science and MARB electives to satisfy the requirement if the course also has the ICD attribute.

- ****** Must be an upper level MARB course. Upper level MARS course can be chosen with approval from MARB Department.**
- **Writing Intensive - Minimum 2 courses**
- **Courses requiring a grade of "C" or better**

Total: 120
**Program Evaluation**

**Limitation** Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

**Limitation** Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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This is NOT an official evaluation.

| Area : Major Coursework ( 82.000 credits ) - Not Met |
| --- | --- |
| Met | Condition Rule Subject Attribute Low High Required Credits | Required Courses | Term Subject Course Title Attribute Credits Grade Source |
| No | A. | BIDT 111 | Must make a grade of "C" or better. |
| No AND | B. | BIDT 112 | Must make a grade of "C" or better. |
| No AND | C. | MARB 301 |  |
| No AND | D. | MARB 303 |  |
| No AND | E. | MARB 311 |  |
| No AND | F. | MARB 312 |  |
| No AND | G. | MARB 315 |  |
| No AND | H. | MARB 360 |  |
| No AND | I. | MARB 423 |  |
| No AND | J. | MARB 425 |  |
| No AND | K. | MARB 435 |  |
| No AND | L. | MARB 445 |  |
| No AND | M. | MARB 460 |  |
| No AND | N. | MARB 482 |  |

Total Credits and GPA 0.000 .00

unofficial evaluation

| Area : Supporting Coursework ( 7.000 credits ) - Not Met |
| --- | --- |
| Met | Condition Rule Subject Attribute Low High Required Credits | Required Courses | Term Subject Course Title Attribute Credits Grade Source |

unofficial evaluation

### Area: Communication (6.000 credits) - Not Met

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Total Credits and GPA 0.000   .00

unofficial evaluation

### Area: Mathematics (6.000 credits) - Not Met

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Total Credits and GPA 0.000   .00

unofficial evaluation

### Area: Life and Physical Sciences (28.000 credits) - Not Met

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Total Credits and GPA 0.000   .00

unofficial evaluation

### Area: Language, Philosophy & Culture (3.000 credits) - Not Met

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<td>Select any course with the Language, Philosophy and Culture attribute (KUPC).</td>
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Total Credits and GPA 0.000   .00
### Unofficial Evaluation

#### Area: Creative Arts (3.000 credits) - Not Met

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<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [ACRA].</td>
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### Unofficial Evaluation

#### Area: Social and Behavioral Science (3.000 credits) - Not Met

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### Unofficial Evaluation

#### Area: Citizenship (11.000 credits) - Not Met

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<tr>
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<td>American History Rqmt 6hrs</td>
<td>Select 6 hours from any course with the (KHS) attribute.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Political Science Rqmt 6hrs</td>
<td>Take POLS 206 and POLS 207.</td>
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### Unofficial Evaluation

#### Area: Work Not Applied - Met

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### Unofficial Evaluation

#### Area: University Writing Requirement - Not Met

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<td>Writing Requirement</td>
<td>Select two courses with the Writing Requirement [UWR] attribute.</td>
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### Unofficial Evaluation

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https://compass-ssb.tamu.edu/pls/PROD/hwckapp.P_VerifyDispEvalViewOption

9/23/2015
### Area: Int'l & Cult Diversity - Not Met

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<td>A.</td>
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<td>Int'l &amp; Cultural Diversity</td>
<td>6 hours required. Select from courses with the International and Cultural Diversity attribute [I(CD)].</td>
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Total Credits and GPA: 0.000 .00

Unofficial Evaluation

### Area: Foreign Language - Not Met

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<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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Total Credits and GPA: 0.000 .00

Unofficial Evaluation

### Area: GPR-Major - Not Met

Description: A minimum GPR of 2.000 must be maintained on all major field of study courses.

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<tr>
<td></td>
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</table>

Total Credits and GPA: 0.000 .00

Unofficial Evaluation

### Area: Residence Requirement - Not Met

Description: Student must complete minimum of 36 hours of 300-400 level course work at Texas A&M University, 12 hours must be in field of study.

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Total Credits and GPA: 0.000 .00

Unofficial Evaluation

Back to Display Options

[Print]
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE SCIENCES
BS IN MARINE SCIENCES
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   ✔ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, J.D., M.D., etc.)

2. Request change for:  
   ✔ Degree Program  □ Minor  □ Certificate

3. Request submitted by (Department or Program Name):
   Marine Sciences

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union): Marine Sciences BS

5. Brief description of change:
   The MARS degree is being divided into 4 tracks: chemical, physical, geological or integrated. The students will choose 6-8 hours of track focus electives then 12 hours of track breadth electives. The capstone experience will be 6 credit hours of guided research projects over the 2 semesters of their senior year.

6. Rationale for change:
   The new MARS degree gives the students the option to get a broadly interdisciplinary degree as such as now exists by choosing the integrated path, or they can focus on one key area: geological, chemical or physical. They can still easily get a chemistry or geology minor from those tracks. The senior research experience has been better defined with more guidance and a requirement to present their research at the TAMUG research symposium or other venue. The addition of the integrated marine science laboratory should further enrich their experience with field activities and measurement techniques.

7. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached.  ✔ Yes  □ No
   b. Current catalog curriculum with handwritten edits attached.  ✔ Yes  □ No
   c. Current Howdy degree evaluation with handwritten edits attached.  ✔ Yes  □ No

8. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  □ Yes  ✔ No
   If yes, degree program hours will change from:  to:  
   □ Yes  □ No
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      http://www.thecb.state.tx.us/index.cfm?objectid=A93F7FA-9A02-4F11-2256ADB3165CF181157D0

9. If proposed changes affect other unit(s), are letters of support attached?  □ Yes  □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Kyongs Park  9/25/15
Department Head & Program Chair (Type Name & Sign)

Date

Dean of College

Date

Chair, College Review Committee

Date

Chair, GC or UCC

Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or: smarsh@tamu.edu
Curricular Services – 6/14
<table>
<thead>
<tr>
<th>Proposed Marine Sciences Curriculum</th>
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<tbody>
<tr>
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<tr>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>chem 101</td>
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<tr>
<td>chem 111</td>
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<tr>
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<td>geol 101</td>
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<tr>
<td>geol 102</td>
</tr>
<tr>
<td>mars 101</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</table>

| **Spring**                           | **Spring** |
| comm elec                            | Communications elective | (3-0) | 3 | Comm Core Satisfied, Biol 112 moved to sophomore year |
| chem 102                            | Fundamentals of Chemistry II | (3-0) | 3 Sci | Sci Core Satisfied |
| chem 112                            | Fund. Of Chemistry Laboratory II | (6-3) | 1 | 1 |
| math 152                            | Engineering Mathematics II | (3-2) | 4 Math | Math Core Satisfied |
| ocean 251                           | Oceanography** | (3-0) | 3 | OCEG 252 is taught as a 2 contact hour class in CS. This is a new lab course for science majors that is 3 contact hours and includes field activities. |
| mars 252                            | Intro Marine Science Laboratory** | (0-3) | 1 |        |
| **Total Hours**                     |        | 15 |        |        |

| **Sophomore Year**                  |
| **Fall**                            | **GV** | **Track** | **Core Cur** | **Rationale** |
| math 251                            | Engineering Mathematics III | (3-0) | PMST | PMST = Physical Marine Science Track |
| OR                                  |        |        |        |        |
| chem 227                            | Organic Chemistry I | (3-0) | CMST | CMST = Chemical Marine Science Track |
| chem 237                            | Organic Chemistry I Laboratory | (0-3) | 1 | 1 |
| OR                                  |        |        |        |        |
| mars 306                            | Coastal Sedimentary Geology | (2-3) | GMST | GMST = Geological Marine Science Track |
| biol 111                            | Introductory Biology I | (3-2) | 4 | Biology dept. prerequisite for BIOL 112 |
| phys 218                            | Mechanics | (3-3) | 4 | |
| mars 210                            | Marine Geography | (3-0) | 3 | 3 & B Sci & B Sci Core Satisfied & ICD |
| **Total Hours**                     |        | 15 |        | The Physical Marine Science track is 1 credit less, to be made up with General Elective. |

| **Spring**                           | **Spring** |
| chem 228                            | Organic Chemistry II | (3-0) | CMST | Students may elect to stay in the IMST Track. In the sophomore year, they must take two of any of the listed elective courses required by the three other tracks (must take in order for prerequisites.) |
| OR                                  |        |        |        |        |
| chem 238                            | Organic Chemistry II Laboratory | (0-3) | 1 |        |
| OR                                  |        |        |        |        |
| geol 106                            | Historical Geology | (3-3) | GMST |        |
| OR                                  |        |        |        |        |
| math 308                            | Differential Equations | (3-0) | PMST |        |
| hist                                | History Core Requirement | (3-0) | 3 Hist |        |
| biol 112                            | Introductory Biology II | (3-3) | 4 |        |
| phys 208                            | Electricity and Optics | (3-3) | 4 |        |
| mars 281                            | Sophomore Seminar in MARS** | (1-0) | 1 | Make Writing Intensive |
| **Total Hours**                     |        | 16 |        | The Physical Marine Science track is 1 credit less, to be made up with General Elective. |
### Proposed Marine Sciences Curriculum

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<thead>
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<td>Fall</td>
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<tr>
<td>mars 303</td>
<td>Computing and Data Display**</td>
<td>(3-2)</td>
<td>3</td>
<td>Course to be redesigned to include Statistics for Science majors and Matlab</td>
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<td>ecng 420</td>
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<td>(3-0)</td>
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<td>3 Pols</td>
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<td>pols 207</td>
<td>State and Local Government</td>
<td>(3-0)</td>
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<td>(3-0)</td>
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<td>mars 410</td>
<td>Physical Oceanography**</td>
<td>(3-0)</td>
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<td>New Course to be developed. Lab and field techniques for all MARS majors.</td>
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<td>3 Cr. Art</td>
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<td>track elec</td>
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<td>mars 365</td>
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<td>mars 460</td>
<td>Capstone Undergraduate Research Experience I**</td>
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<td>Modify existing course. Concurrent enrollment in mars 491 required</td>
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<td>Introduction to GIS**</td>
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**Selected from mars 430, 431

**counts in major GPR

May substitute 430 or 431 as a Track elective if both are taken
Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 483, 485, 486 and/or 491 courses may be used for an undergraduate degree.

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<th>Program:</th>
<th>(GV) 85 MARS</th>
<th>Catalog Term:</th>
<th>Evaluation Term:</th>
<th>Fall 2015 - Galveston</th>
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This is NOT an official evaluation.

Area Major Coursework (32.000 credits) - Not Met

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<tr>
<td>MATH 410</td>
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<tr>
<td>Geological OCNG Rqnt 3hrs</td>
<td>AND</td>
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<tr>
<td>Select from MARS 430 or 431.</td>
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<td>MARS 440</td>
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<td>MARS 460</td>
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<td>MARS 481</td>
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<td>MARS 486</td>
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<td>MARS 303</td>
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Total Credits and GPA: 0.000 0.00

unofficial evaluation

Area Supporting Coursework (15.000 credits) - Not Met

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Attachment
unofficial evaluation

Area Communication (6.000 credits) - Not Met

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unofficial evaluation

Area Mathematics (3.000 credits) - Not Met

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unofficial evaluation

Area Life and Physical Sciences (3.000 credits) - Not Met

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unofficial evaluation

Area Language, Philosophy & Culture (3.000 credits) - Not Met

<table>
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<tr>
<th>Met Condition</th>
<th>Rule Subject</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
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<td>No</td>
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Select any course with the Language, Philosophy and Culture attribute (LPCP).

Total Credits and GPA 0.000 .00
unofficial evaluation

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<th>Area</th>
<th>Creative Arts (3,000 credits) - Not Met</th>
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<tr>
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<th>Int'l &amp; Cult Diversity - Not Met</th>
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<td>1. Two years of the same foreign language in High School.</td>
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<td>Description</td>
<td>Must maintain a minimum GPR of 2.000 on all major field of study courses.</td>
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<th>Residence Requirement - Not Met</th>
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<td>Description</td>
<td>Student must complete minimum of 26 hours of 300-400 level coursework at Texas A&amp;M University; 12 hours must be in field of study.</td>
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<td>AND B. Residence 24hrs</td>
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unofficial evaluation

Back to Display Options

Print
Curriculum in Marine Sciences (MARS)

The Marine Sciences curriculum concentrates on the physical and chemical aspects of science of the marine, estuarine, and coastal environment. The coastal location of the campus enables students to acquire extensive hands-on field experience in addition to a solid base of academic instruction in chemistry, geology, physics, biology, and mathematics. Advanced work centers around four semesters of oceanography. Electives in the junior and senior year allow the student to obtain a broader background in ocean studies or to specialize, usually in the areas of environmental science, geology, or chemistry. The Marine Sciences graduate has a strong, well-rounded foundation in the quantitative physical sciences with considerable field and laboratory experience. With suitably chosen electives, graduates are qualified to enter M.S. or Ph.D. programs in Oceanography or related disciplines, or to move directly into jobs in environmental monitoring, oceanographic instrumentation, pollution control, the offshore oil industry and other fields.

Students majoring in Marine Sciences can be eligible for a secondary teaching field in Physical Sciences, pending the completion of a teaching certification program. For information about teaching certification, go to https://secure.deece.tamu.edu/BDCEOnline/approvedprograms.asp.

Students may choose to pursue a minor in geology or chemistry through TAMU in College Station. To obtain a minor in geology, you must choose a minimum of 12 hours of geology electives beyond GEOL 104; to obtain a minor in chemistry, you must take 17 hours of chemister beyond general chemistry. An advisor in MARS can help you select courses and facilitate the approval process through the TAMU department.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>CHEM 101</td>
</tr>
<tr>
<td>CHEM 111</td>
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<tr>
<td>ENGL 104</td>
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<tr>
<td>GEOL 101</td>
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<td>MATH 151</td>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>BIOL 112</td>
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<tr>
<td>CHEM 102</td>
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<td>CHEM 112</td>
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<td>MATH 152</td>
</tr>
<tr>
<td>OCNG 251</td>
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<td>MARS 489</td>
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### SOPHOMORE YEAR

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<tbody>
<tr>
<td>CHEM 227</td>
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<tr>
<td>CHEM 237</td>
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<tr>
<td>MARS 281</td>
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<tr>
<td>MATH 251</td>
</tr>
<tr>
<td>PHYS 218</td>
</tr>
<tr>
<td>Elective in American History</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CHEM 228</td>
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<td>CHEM 238</td>
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<tr>
<td>MARS 210</td>
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<tr>
<td>PHYS 208</td>
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<tr>
<td>POLS 206</td>
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<td><strong>Total</strong></td>
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</table>
### Junior Year
#### Fall Semester
- MARS 303 - Introduction to Computing and Data Display † (2-2) 3
- OCNG 420 - Introduction to Biological Oceanography † (3-0) 3
- POLS 207 - State and Local Government 3
- Elective in American History 3
- Professional Elective § 3
- Total 15

#### Spring Semester
- BIOL 210 - Technical and Business Writing (3-0) 3
- MARS 440 - Introduction to Chemical Oceanography † (3-0) 3
- Elective in Creative Arts 3
- Professional Elective § 3
- Professional Elective § 3
- Total 15

### Senior Year
#### Fall Semester
- MARS 325 - Introduction to Geographic Information Systems † (2-2) 3
- MARS 410 † - Introduction to Physical Oceanography † (3-0) 3
- MARS 481 - Seminar 1
- MARS 485 - Writing Intensive Directed Study †† 3
- Elective in Language, Philosophy and Culture 3
- Total 15

#### Spring Semester
- MARS 450 - Geophysical Oceanography - Plate Tectonics †** (3-0) 3
- or MARS 491 - Geophysical Oceanography - Earth's Climate †** (3-0) 3
- MARS 499 † - Modern Oceanographic Methods † (3-0) 3
- Professional Elective § 3
- Total 15

Total Hours: 120

---

**Notes for Marine Sciences**

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://www.tamu.edu](http://www.tamu.edu) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Languages, Philosophy and Culture; Creative Arts; American History; Government and Political Science; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

- BIOL 111 is a prerequisite for BIOL 112.
- † Indicates required course in the Marine Sciences major. These courses will be used to compute the major GPA. Also, if any upper level MARS or OCNG elective courses are taken, they will be used in the major GPA.
- § Professional Electives must be chosen from 300 or 400 level Science or Mathematics courses, except GEOL 301.
- †† The total hours may be increased if the student is required to take coursework in remedial math, remedial English, foreign language or International and Cultural Diversity.
- †** Designated writing intensive course.

☑️ 3 hrs must be 1CDJ only first hurdle
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE SCIENCES
BS IN MARINE SCIENCES - LICENSE OPTION
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   - ☑ Undergraduate
   - ☐ Graduate
   - ☐ First Professional (e.g., DVM, M.D., J.D., etc.)

2. Request change for:
   - ☑ Degree Program
   - ☐ Minor
   - ☐ Certificate

3. Request submitted by (Department or Program Name):
   - Marine Sciences

4. Program Designation and Name
   - (e.g., B.A. in History, Minor in History; Certificate in European Union):
   - Marine Sciences - licensure option BS

5. Brief description of change:
   Geology split the lecture and lab into geo1 101 and 102. Oceanography 252 lab is only 2 contact hours and to have more field work. Mars 252 into marine sciences lab with 3 contact hours is proposed. ENGL 210 is no longer a requirement, replaced with any communications core elective. By not requiring biology, the option to take biological oceanography, ocean 420, is eliminated, so the only flexibility in upper level MARS coursework is to choose between marine geochemistry - plate tectonics or marine 431 geological oceanography - Earth's climate. Meteorology was eliminated by the maritime academy and the concepts needed for license incorporated into courses.

6. Rationale for change:
   Changes to the MARS degree and changes to the licensing requirements are reflected in the proposed changes. The number of credit hours has not changed. The 138 total hours is necessitated by the need to have enough classes in the major to make it a marine science degree while still meeting the license requirements. The difference between 120 and 138 is primarily due to summer courses totaling 12 hours, and other new license mandated coursework.

7. a. Proposed curriculum attached.
   - Yes
   - No

b. Current catalog curriculum with handwritten edits attached.
   - Yes
   - No

c. Current Howdy degree evaluation with handwritten edits attached.
   - Yes
   - No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   - Yes
   - No

b. If yes, degree program hours will change from: ____________ to: ____________

c. If yes, is the Texas Higher Education Coordinating Board form attached?
   - Yes
   - No

   http://www.thecb.state.tx.us/index.cfm?objectid=ABEBC79A-4A82-4F11-2756AD3BFF01160

9. If proposed changes affect other unit(s), are letters of support attached?
   - Yes
   - No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:
Kyeong Park
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Dean of College Date
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or skincl@tamu.edu
Curricular Services – 04/14
<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Track</th>
<th>Core Cur</th>
<th>Rationale</th>
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<tr>
<td>Fall</td>
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<tr>
<td>mars 101</td>
<td>Marine Science Matters**</td>
<td>(1-0) 1</td>
<td>Name Change - Marine Science Matters</td>
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<tr>
<td>math 151</td>
<td>Engineering Mathematics I</td>
<td>(3-2) 4</td>
<td>4 Math</td>
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<td>geol 101</td>
<td>Principals of Geology</td>
<td>(3-0) 3</td>
<td>4 Scl Satisfies Core Curriculum, Geol 104 does not.</td>
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<td>Principals of Geology Lab</td>
<td>(0-2) 1</td>
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<td>engl 104</td>
<td>Composition and Rhetoric</td>
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<td>3 Comm</td>
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<tr>
<td>mart 201</td>
<td>Naval Architecture I*</td>
<td>(2-3) 3</td>
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<tr>
<td>mart 103</td>
<td>Basic Safety and lifeboatman Training*</td>
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<td>Intro. Marine Science Lab**</td>
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<td>Seamanship I*</td>
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<td>Terrestrial Navigation*</td>
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<tr>
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<tr>
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<td>4 or 6</td>
<td>See Texas A&amp;M Maritime Academy Section for cruise requirements</td>
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<td>Sophomore Year</td>
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<td>Seamanship II*</td>
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<td>Celestial Navigation*</td>
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<td>Maritime Law I</td>
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<td>mart 312 Marine Cargo Operations**</td>
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<td>mars 307 Global Maritime Distress Safety System*</td>
<td>(2-2) 3</td>
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<td>mart 406 Marine Cargo Operations II</td>
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<td>mars 325 Intro to Geographic Information Systems**</td>
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<td>mart 410 Bridge Watchstanding*</td>
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<td>L &amp; P &amp; C elec Language, Philosophy &amp; Culture Core Elective</td>
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<td>hist elec Geological Oceanography requirement**</td>
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<td>pols 206 American National Government</td>
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**courses used to calculate major GPA

*Indicates license courses leading to a USCG license endorsement or sea time credit accrual which require a minimum grade of C (70%) or better to earn the endorsement or accrual. Credits will be required to repeat the course until they earn a grade of C (70%) or better. MART 307 GM035 requires a score of 75% or better.
**Curriculum in Marine Sciences License Option (MARS-LO)**

This program retains the basic physical science core of the Marine Sciences curriculum, and leads toward a license as a deck officer in the United States Merchant Marine. The student who successfully completes the license program will be qualified to sit for the U.S. Coast Guard examination as a Third Mate of any gross tonnage upon oceans, steam, or motor vessels. Students combine a broad base of courses in physical science and mathematics and practical instruction in seamanship and navigation with upper-level oceanography courses chosen by the student.

The objective of the program is to provide students with a sound intellectual and educational background to function in a scientifically and technologically advanced society, while also providing the practical hands-on training needed for employment in the maritime industry. Graduates are particularly well qualified to serve on research vessels where an understanding of the scientific purpose of the voyage is required. Students who wish to enter a physical science graduate program will need to take additional course work in science and mathematics.

Midshipmen who enroll in and apply to graduate under one of the license option curricula must complete the appropriate license examination for Third Mate or Third Assistant Engineer in order to graduate from Texas A&M University. Certain USCG courses require a minimum grade of C (70%).

### FRESHMAN YEAR

**Fall Semester**
- GEOL 102 Principles of Geology *(Th-Fr)* 3
- MARS 101 Introduction to Marine Sciences 1
- MATH 103 Basic Safety and Lifesaving Training ** 2
- MATH 201 Naval Architecture I ** 3
- MATH 151 Engineering Mathematics I 4

**Spring Semester**
- ENG 104 Composition and Rhetoric 3
- MARS 201 Sophomore Seminar in Marine Sciences 1
- MATH 203 Seamanship I ** 3
- MATH 204 Terrestrial Navigation ** 3
- MATH 152 Engineering Mathematics II 4
- POLS 206 American National Government 3

**Total** 15

**SUMMER TRAINING CRUISE (see Texas A&M Maritime Academy section for cruise requirements)**

MART 200 or NAUT 200 ** 4 (or 6)

### SOPHOMORE YEAR

**Fall Semester**
- CHEM 101 Fundamentals of Chemistry I 3
- CHEM 111 Fundamentals of Chemistry Laboratory I 1
- MATH 202 Naval Architecture II ** 3
- MARC 305-Ship Construction and Stability ** (3-0) 3

**Spring Semester**
- PHYS 218 Mechanics I 4

**Total** 17

**Notes:**

- **:** Mandatory for license program.
- † Oceanography Laboratory for Science Majors, should be taken in the junior year.

---

*71*
## JUNIOR YEAR

### Fall Semester
- MARS-300: Introduction to Computing and Data Display † 
- MARS 304: Radar/ARPA/EXOSIS **
- MARS 312: Marine Cargo Operations **
- NVSC 200: Naval Science
- Elective in Creative Arts

**Total:** 16

### Spring Semester
- ENGR 210: Technical and Business Writing
- Option †
- MARS 307: Global Maritime Distress Safety System **
- MARS 406: Marine Cargo Operations II ***

**Total:** 15

### SUMMER TRAINING CRUISE (see Texas A&M Maritime Academy section for cruise requirements)
- MARS 300 or MARS 350 or NAUT 300 **

**4 (or 6)***

## SENIOR YEAR

### Fall Semester
- MARS 410: Option †
- MARS 481: Seminar †
- MFT 302: Weather-Reports and Forecasting
- MARS 304: Electronic Navigation **
- MARS 410: Bridge Watchstanding **
- Elective in American History

**Total:** 14

### Spring Semester
- MARS 310: Field Methods in Marine Sciences †
- Option †
- MARS 498: Maritime Medical Care **
- POLS 327: State and Local Government
- Elective in American History
- Elective in Language, Philosophy, and Culture

**Total:** 17

### SUMMER TRAINING CRUISE (see Texas A&M Maritime Academy section for cruise requirements)
- MARS 400 or NAUT 400 **

**4 (or 6)***

**Total Curriculum Hours:** 138

---

### Notes for Marine Sciences License Option

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at https://curriculum.tamu.edu/ for a listing of course options for Communication, Mathematics, Life and Physical Sciences, Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

** - Indicates license courses leading to a USCG license endorsement or sea time credit accrual which requires a minimum grade of C (70%) or better to earn the endorsement or accrual. Midshipmen will be required to repeat the course until they earn a grade of C (70%) or better. MARS 307 GDSS requires a score of 75% or better.

† Indicates required courses in the Marine Sciences License Option major. These courses will be used to compute the major GPA. Also, if any upper level MARS or GCNC elective courses are taken, they will be used in the major GPA.

‡ MARS option courses must be chosen from MARS 410, 430, 431, 440 or GCNC 420.
- The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or international and cultural diversity courses, or any of the six hour cruise options. The six-hour cruise options (NAUT 300, 300, and 460 or MARS 300, 300, and 460) do not add any required hours to the degree plan.

§§ Designated writing intensive course. MARS-LG majors must take two writing intensive courses. One of them is required MARS 301. The other course may be chosen from MARS 330, 430 or 431.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 16 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: [Input] BS MARS-licensure It is an
Campus: Galveston
College: Galveston College
Degree: Bachelor of Science
Level: Undergraduate
Majors: Marine Sciences
Departments: Marine Science
Catalog Term: Fall 2015 - Galveston
Evaluation Term: Fall 2015 - Galveston
Expected Graduation Date: 12
Request Number: 0
Results as of: Oct 08, 2015
Minor: Concentrations:

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Other Course Information

Transfer: 0.000 | 0

This is NOT an official evaluation.

Area Major Coursework (38.000 credits) - Not Met

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unofficial evaluation

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Must make a grade of "C" or better.
- No AND B. MART 200 or NAUT 700
  Must make a grade of "C" or better.
- No AND C. MART 201
  Must make a grade of "C" or better.
- No AND D. MART 203
  Must make a grade of "C" or better.
- No AND E. MART 204
  Must make a grade of "C" or better.
- No AND F. MART 300 or 350 or NAUT 300
  Must make a grade of "C" or better.
- No AND G. MART 301
  Must make a grade of "C" or better.
- No AND H. MART 303
  Must make a grade of "C" or better.
- No AND I. MART 304
  Must make a grade of "C" or better.
- No AND J. MART 305 or MART 202
  Must make a grade of "C" or better.
- No AND K. MART 306
  Must make a grade of "C" or better.
- No AND L. MART 307
  Must make 75% or better.
- No AND M. MART 312
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- No AND N. MART 400 or NAUT 400
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- No AND O. MART 410
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- No AND P. MART 491
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- No AND Q. NVSC 200

unofficial evaluation

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unofficial evaluation

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unofficial evaluation
### Area Life and Physical Sciences (33.0 credits) - Not Met

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Total Credits and GPA 0.000 0.00

### Area Language, Philosophy & Culture (3.0 credits) - Not Met

| No | A. Lang, Phil, Culture Requirement |
|    | Select one course from the Language, Philosophy, and Culture attribute list. |

Total Credits and GPA 0.000 0.00

### Area Creative Arts (3.0 credits) - Not Met

| No | A. Creative Arts Requirement |
|    | Select one course from the Creative Arts attribute list. |

Total Credits and GPA 0.000 0.00

### Area Social and Behavioral Science (3.0 credits) - Not Met

| No | A. MARS 210 |

Total Credits and GPA 0.000 0.00

### Area Citizenship (12.0 credits) - Not Met

| No | A. American History Requirement |
|    | Select one course from the American History attribute list. |
| No AND | B. Political Science Requirement |
|    | Take POLS 200 or政法 200 |

Total Credits and GPA 0.000 0.00

unofficial evaluation
### Area: Work Not Applied - Not Met

**Description:** See advisor for acceptable substitutions.

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Unofficial evaluation

**Area:** University Writing Requirement - Not Met

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Unofficial evaluation

**Area:** Int'l & Cult Diversity - Not Met

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Unofficial evaluation

**Area:** Foreign Language - Not Met

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Unofficial evaluation

**Area:** GPA-Major - Not Met

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Unofficial evaluation

**Area:** Residence Requirement - Not Met

**Description:** Students must complete a minimum of 36 hours of 300-400 level course work at Texas A&M University, with 12 hours must be in field of study.
unofficial evaluation

Back to Display Options
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE SCIENCES
BS IN OCEAN AND COASTAL RESOURCES
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type:
   - Undergraduate
   - Graduate
   - First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for:
   - Degree Program
   - Minor
   - Certificate

3. Request submitted by (Department or Program Name):
   Marine Sciences

4. Program Designation and Name:
   - Marine Sciences (Ocean and Coastal Resources)

5. Brief description of change:
   Removal of engl 210 and 2 free elective credits, replaced by biol 111 and an introductory seminar, mms 101. Other housekeeping was necessitated by changes in coursework by other departments, so some changes are in response.

6. Rationale for change:
The OCSB degree had 3 required communications courses. With the incorporation of more writing intensive classes it is felt that engl 210 is not also needed, whereas keeping comm 203, public speaking, will help them in their careers as advocates for resources. The biology department has required that the biol 111 be included as a prerequisite for biol 112, so no longer allowing our majors a waiver. The introductory mms 101 gives us an opportunity for a first year experience in the first semester and a cruise will be included in that course. Geology split the geol 101 lecture away from the lab, creating geol 102 and also reducing the contact hours for this new lab, and our changes include that adjustment. Some time ago oceanography reduced the contact hours for oceg 252 lab and that does not give us enough time to do the field work for several of our lab sessions, so we are creating an intro marine sciences lab, mms 252, to replace it, making it 3 contact hours.

7. a. Proposed curriculum attached.
   - Yes
   - No

   b. Current catalog curriculum with handwritten edits attached.
   - Yes
   - No

   c. Current Howdy degree evaluation with handwritten edits attached.
   - Yes
   - No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   - Yes
   - No

   b. If yes, degree program hours will change from: ________ to: ________

   c. If yes, is the Texas Higher Education Coordinating Board form attached?
   - Yes
   - No

http://www.thecb.state.tx.us/index.cfm/objecid/A0F847FA-9A82-4F11-2756AD3BBF01D60

9. If proposed changes affect other unit(s), are letters of support attached?
   - Yes
   - No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC. January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or manda-williams@tamu.edu.
Curricular Services – 04/14
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*Selected from mars 430, 431

**counts in major GPR
## Curriculum in Ocean and Coastal Resources (OCRE)

Ocean and Coastal Resources (OCRE) will educate students with regard to the economic, environmental and social issues related to the development of marine resources, while providing them with the scientific background needed to understand these issues. These resources include fisheries, oil and gas, ocean mining and others. The OCRE degree differs considerably in content from the Marine Sciences (MARS) curriculum through increased focus on geological and biological sciences, along with economics, political science and law. While the present MARS program is designed to produce well-rounded physical scientists, the OCRE curriculum is oriented more to societal and environmental impacts of ocean science.

Many of the resource development issues in today’s world are centered around environmental pollution, sustainable development, biological diversity, fisheries and agriculture and oil and gas development. Every aspect of marine resources development is undergoing rapid growth. From fisheries management to ocean mining and offshore oil and gas development, the demand for trained entry-level personnel from both government and industry is extremely high. There is also a strong demand for individuals who understand and can use scientific information in the planning and management processes, but who are not themselves beach or field scientists.

Students in OCRE may establish a minor field of study in Maritime Administration through completing 18 credits as outlined in the Maritime Administration curriculum pages. A minor in Ocean and Coastal Resources is available for students of other majors.

Students majoring in Ocean and Coastal Resources can be eligible for a secondary teaching field in Physical Sciences, pending the completion of a teaching certification program. For information about teaching certification, go to https://secure.shec.state.tx.us/STH/COH/mini/approvedprograms.aspx.

### FRESHMAN YEAR

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**Total Hours: 14**

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Elective in American History.

**Total Hours: 16**
### JUNIOR YEAR
#### Fall Semester
- MARA 363: The Management Process (3-0) 3
- MARS 350: Advanced Computer Applications (1-2) 2
- GCNG 420: Introduction to Biological Oceanography (3-0) 3
- Elective in American History 3
- Professional Elective (3-0) 3

Total Hours: 14

#### Spring Semester
- ENGL 210: Technical and Business Writing (3-0) 3
- MARS 310: Field Methods in Marine Sciences §V 1
- STAT 303: Statistical Methods (2-2) 3
- Professional Elective 3
- Creative Arts Elective 3

Total Hours: 15

### SENIOR YEAR
#### Fall Semester
- MARS 325: Introduction to GIS (2-2) 3
- MARS 425: Coastal Wetlands Management (3-0) Credit 3 4
  or MARS 426: Coastal Wetlands Delineation Laboratory (0-3) Credit 1 4
- MARS 430: Coastal Plant Ecology (3-0) Credit 4 4
- MARS 481: Seminar 1 (1-0) 1
- POLS 347: Politics and the Environment (3-0) 3
  or MARS 432: Peak Oil, Global Warming and Resource Scarcity 3

Total Hours: 15 1/4

#### Spring Semester
- MARS 430*: Geological Oceanography: Plate Tectonics §V 3
- MARS 431: Geological Oceanography: Earth’s Climate 1
  or MARS 432: Professional Elective
- Language, Philosophy and Culture Elective 3
- Professional Elective 3
- Professional Elective 3

Total Hours: 17 1/6 of 17

Total Curriculum Hours: 120

### Notes for Ocean and Coastal Resources

*All electives must be chosen in consultation with, and approved by, the student’s academic advisor. Unless courses are specifically listed, see University Core Curriculum at [here](#).

1. Either MATH 151 (4 credits) or MATH 142 (3 credits) may be taken. Credit will not be given for both MATH 151 and MATH 142. For the second math class, either MATH 152 (4 credits) or MATH 141 may be taken. Depending upon the math sequence selected, the number of credits varies by 1 or 2 credits. The total number of hours for the degree must still be at least 120, so the difference can be made up with professional electives, MATH 484 or MATH 485.


3. Recommended professional electives include, but are not limited to:

4. Field Experience may also be completed in MATH 100 plus one credit hour of a field oriented lab course.

5. The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses.

6. Students may choose to take MARS 460 and gain credit for MARS 310 and two hours of professional electives.

7. Designated writing intensive course.

## Detail Requirements

### Information for Degree Evaluation

This is NOT an official evaluation.

### Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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### Courses

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**unofficial evaluation**

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**Term Subject Course Title Attribute Credits Grade Source**

Total Credits and GPA: 0.000 0.00

of 5
Detail Requirements

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| No AHD | B.  ECOH 203                      |
| No AHD | C.  HARA 363                      |
| No AHD | D.  POLS 347 or MARS 432         |

Total Credits and GPA 0.000 .00

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<td>Condition Rule Subject Attribute Low High Required Credits Courses Term Subject Course Title Attribute Credits Grade Source</td>
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<tr>
<td>No A.</td>
<td>Physics RPT 4hrs Select from PHYS 201 or 210.</td>
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<td>No AHD</td>
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<tr>
<td>No AHD</td>
<td>CHEM 101</td>
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<tr>
<td>No AHD</td>
<td>CHEM 101</td>
</tr>
<tr>
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<td>CHEM 111</td>
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0/5
Detail Requirements

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unofficial evaluation

**Area: Language, Philosophy & Culture (3.000 credits) - Not Met**

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<th>High</th>
<th>Required</th>
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<th>Courses</th>
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<td>Lang. Phil. Culture</td>
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<td>Select any course with the Language, Philosophy and Culture Attribute [LPC].</td>
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unofficial evaluation

**Area: Creative Arts (3.000 credits) - Not Met**

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<td>Select three hours from any course with the Creative Arts Attribute [ACR].</td>
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unofficial evaluation

**Area: Social and Behavioral Sciences (3.000 credits) - Not Met**

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unofficial evaluation

**Area: Citizenship (12.000 credits) - Not Met**

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<td>American History</td>
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<td>Select 6 hours from any course with the [HHS] attribute.</td>
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<td>B.</td>
<td>Political Science</td>
<td>6hrs</td>
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<td>Take POLS 200 and POLS 207.</td>
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unofficial evaluation

**Area: General Electives (6.000 credits) - Not Met**

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<th>Required</th>
<th>Credits</th>
<th>Courses</th>
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<tr>
<td>No</td>
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<td>General Electives</td>
<td>3 or 4</td>
<td>hours of coursework required. Select any course not used elsewhere (except CASII 001-003).</td>
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Total Credits and GPA 0.000 .00
### Unofficial Evaluation

**Area:** Work Not Applied - Not Met

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<th>Low High</th>
<th>Required</th>
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<th>Term Subject</th>
<th>Course</th>
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<th>Course</th>
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**Total Credits and GPA:** 0.000 0.00

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**Area:** University Writing Requirement - Not Met

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<th>Title</th>
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<th>Course</th>
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Select two courses with the Writing Requirement (WRTK) attribute.

**Total Credits and GPA:** 0.000 0.00

---

**Area:** Int'l & Cult Diversity - Not Met

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<th>Attribute</th>
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<th>Term Subject</th>
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<th>Course</th>
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<td>No</td>
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<td>Int'l &amp; Cultural Diversity</td>
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6 hours required. Select four courses with the Inter-cultural and Cultural Diversity attribute (URCD).

**Total Credits and GPA:** 0.000 0.00

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**Area:** Foreign Language - Not Met

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<th>Course</th>
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<tr>
<td>No</td>
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<td>Foreign Language Apt</td>
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Complete one of the following:
1. Two years of the same foreign language in high school
2. A two semester sequence of the same foreign language for university credit

**Total Credits and GPA:** 0.000 0.00

---

**Area:** GPA-Major - Not Met

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<th>Course</th>
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<td>Major GPA 2.065</td>
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**Total Credits and GPA:** 0.000 0.00
### unofficial evaluation

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<th>Area</th>
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<tr>
<td>Description</td>
<td>Student must complete minimum of 36 hours of 300-400 level course work at Texas A&amp;M University. 12 hours must be in field of study.</td>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Course Total Credits and GPA</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
</tr>
<tr>
<td>No AND B. Residence 24hrs</td>
<td>0.00 0.00</td>
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### unofficial evaluation

Back to Display Options
TAMUG
CHANGE IN CURRICULUM
TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE SCIENCES
BS IN OCEAN AND COASTAL RESOURCES AND MASTER IN MARINE RESOURCES MANAGEMENT (3+2)
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   - [X] Undergraduate
   - [X] Graduate
   - [ ] First Professional (e.g., DPM, JD, MD, etc.)

2. Request change for:
   - [X] Degree Program
   - [ ] Minor
   - [ ] Certificate

3. Request submitted by (Department or Program Name):
   Marine Sciences

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   Ocean and Coastal Resources and Marine Resources Management

5. Brief description of change:
   Removal of ENGL 210 and 2 free elective credits, replaced by BIOL 111 and an introductory seminar with first year experience, MARS 101. Other housekeeping necessitated by changes in coursework by other departments. Changes also to the MARM curriculum and this 3+2 program requirements needed to reflect those changes.

6. Rationale for change:
   ENGL 210 is dropped leaving 6 credit hours of communications. BIOL 111 is included as a prerequisite for BIOL 112. Our majors no longer have a waiver. The introductory MARS 101 adds a first year experience in the first semester with a cruise as part of the course. Geology split the lecture and lab into GEOG 101 (3er) and GEOG 102 (1cr). The 2 contact hours for GCNG 252 do not give enough time for some field experiences in several lab sessions, so an intro marine science lab, MARS 252 (0-3) is proposed. For the graduate portion MARS 615 and MARS 620 are no longer required, and have been replaced with MARS 603 Quantitative Methods in Resource Management and PLAN 641 Problems in Environmental Planning Administration, and a seminar, MARS 681, is required, for a total of 24 hours of required MARM coursework. An additional 12 hours of electives in MARM bring the total graduate credits to 36. No other changes were made to the 3+2 plan.

7. a. Proposed curriculum attached.
   - [ ] Yes
   - [ ] No

b. Current catalog curriculum with handwritten edits attached.
   - [ ] Yes
   - [ ] No

c. Current Howdy degree evaluation with handwritten edits attached.
   - [ ] Yes
   - [ ] No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?
   - [ ] Yes
   - [ ] No

b. If yes, degree program hours will change from: __________ to: __________

   c. If yes, is the Texas Higher Education Coordinating Board form attached?

   http://www.thecb.state.tx.us/index.cfm?objectid=A8F9F7FA-5A92-4F11-2756AD3B3BF011D60

   - [ ] Yes
   - [ ] No

9. If proposed changes affect other unit(s), are letters of support attached?

   - [ ] Yes
   - [ ] No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCGC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]

Date: 10/20/15

Chair, College of [Department Name]

Date: 10/20/15

Questions regarding this form should be directed to Curricular Services at 945-3201 or sander-william@tamu.edu.

Curricular Services – 9/1/15
5-Year Curriculum: Ocean and Coastal Resources (OCRE) and Master of Marine Resources Management (MARM)

This program allows Ocean and Coastal Resources (OCRE) majors to enter the graduate program for a Master of Marine Resources Management at the beginning of their senior year, enabling students to receive their OCRE undergraduate degree (B.S.) and a Master of Marine Resources Management (MARM) graduate degree in five years.

Students admitted to the 5-year degree program will have completed 102 of the 120 hours of course work required to receive a bachelor's degree. These courses must include the specific prerequisites for a Bachelor of Science degree in Ocean and Coastal Resources, as well as the required Texas A&M University core curriculum courses.

**Application to the 5-Year Program**

Ocean and Coastal Resources majors who have at least a 3.25 GPA and who will have taken all of their prerequisite courses and otherwise completed 101 or 102 hours by the fall of their fourth year will be eligible to apply for the 5-year program during their junior year. Applicants to the 5-year program will submit the same materials (including GRE scores) as other MARM applicants, and those whose records are judged to be competitive by the mid-January deadline will be admitted. Admission criteria will be the same as for the other MARM students.

Admitted students will be enrolled in Marine Resources Management graduate courses with an undergraduate classification (U4) during the fall of their fourth year. They will then be reclassified as degree-seeking master's students (G7) upon completing 120 credit hours. This will normally occur at the beginning of the fall semester of the fifth year. Students will be required to complete the same 3-year, 36-hour curriculum as other students admitted to the MARM joint-thesis program. This curriculum combines nine core courses (24 credit hours) in resources management, policy and economics with 12 credit hours of electives (see MARM curriculum). At least one elective must be a science elective and at least one must be additional law, policy, or management courses.

If students are interested in the MARM thesis option, then there is additional flexibility to replace required courses with up to six hours of 691 (research) courses and electives chosen with the approval of their thesis advisor and committee. To comply with the course and work requirements of the thesis option, this program may extend beyond the 3-year window. For specific requirements to comply with the thesis option curriculum, students are asked to consult the MARM section of the TAMUS catalog.

Students who choose not to finish the MARM degree after being admitted to the 5-year program may exit the program at any time. Completed MARM courses will be applied to their bachelor's degree in Ocean and Coastal Resources, as appropriate. Failure to complete the MARM program will in no way impede their ability to attain a bachelor's degree in Ocean and Coastal Resources when the requirements for that degree are completed.

Those who pursue the 5-year program will receive both degrees upon the completion of the 5-year program. Students will not graduate with a bachelor's degree in year four, but rather will earn both their Bachelor of Science and the Master of Marine Resources Management degrees at the end of year five.

**Advising**

Advising for the 5-year program is a coordinated effort by the Department of Marine Sciences undergraduate and graduate advisors and by the Office of Graduate Studies. Advising will help ensure that interested students have satisfied the prerequisite course requirements for the bachelor's degree so that they may enter the 5-year program. OCRE students can speak to Dr. Melanie Leshan at I.leshan@tamuee.edu or phone 409.740.4517. The MARM advisor is Dr. Frederick Schlemmer, at Schlemmer@tamuee.edu or phone 409.740.4518.

**FRESHMAN YEAR**

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<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>(Th-Pr)</td>
<td>Cr 3</td>
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<tr>
<td>GEOL 101</td>
<td>Principles of Geology</td>
<td>(3-0)</td>
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<td>MATH</td>
<td>Mathematics Requirement</td>
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<td>POLS 206</td>
<td>American National Government</td>
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Total Hours = 15

**SOPHOMORE YEAR**

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<td>BIOL 111</td>
<td>Marine Ecology I</td>
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<td>MATH 101</td>
<td>Marine Science Methods</td>
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Total Hours = 15
### Fall 2016

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<td>engl 104</td>
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<tr>
<td>math</td>
<td>(3-2)</td>
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<td>Math Core Satisfied</td>
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<td>geol 101</td>
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<td>Satisifies Core Curriculum. Geol 104 does not.</td>
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<td>mars 101</td>
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<td>may be 15 depending upon math chosen</td>
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<td>biol 112</td>
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<td>Sci Core Satisfied</td>
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<td>pols 207</td>
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<td>Polis</td>
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<td>math</td>
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<td>Math Core Satisfied. Choose either math 152 or math 141.</td>
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<tr>
<td>ocng 251</td>
<td>(3-0)</td>
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<td>Oceanography**</td>
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<tr>
<td>mars 252</td>
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<td>Intro Marine Science Laboratory**</td>
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<td>mars 210</td>
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<td>Marine Geography**</td>
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<td>OCNG 252 is 2 contact hour class. The new lab course for science majors is 3 contact hours includes field activities.</td>
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<td>may be 18 depending upon math chosen</td>
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### Sophomore Year

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<td>chem 111</td>
<td>(0-3)</td>
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<td>(3-0)</td>
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<td>Comm Core Satisfied</td>
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<td>Cr. Art</td>
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<tr>
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<td>Writing Intensive</td>
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<tr>
<td>or phys 201</td>
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</tr>
<tr>
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| Spring         |      |      |                                                |
| chem 102       | (3-0)| 3    |                                                |
| chem 112       | (0-3)| 1    |                                                |
| L&P C Elec     |      |      |                                                |
| mars 363       | (3-0)| 3    |                                                |
| econ 202       | (3-0)| 3    |                                                |
| pols 206       | (3-0)| 3    | POLS Core Satisfied                           |
| Total Hours    |      |      |                                                |
|               | 16   |      |                                                |

### Junior Year

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<td>mars 310</td>
<td>Field Methods in Marine **</td>
<td>(1-6)</td>
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<td>Statistical Methods</td>
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<td>3</td>
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<td></td>
<td>geological ocean requirement **</td>
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<td>History Core Requirement</td>
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<td>mars 491</td>
<td>Research in Marine Sciences**</td>
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<td>mars 481</td>
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**Senior Year and First Year of MARM**

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<td>mars 676</td>
<td>Marine Policy</td>
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<td>mars 604</td>
<td>Marine Natural Resource Economics</td>
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<td>mars 675</td>
<td>Environmental Mgmt Strategies for Scientists</td>
<td>(3-0)</td>
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<td>mars 603</td>
<td>Quantitative Methods for Resource Mgmt</td>
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**Second Year of MARM**

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<tr>
<td>mars 635</td>
<td>Environmental Impact Statements and NRDA</td>
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<td>Integrative Analyses in Marine Resources</td>
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**Total Curriculum Hrs.**

*Selected from mars 430, 431
**Counts in major GPR

144

- 6

- 150
### Spring Semester

**Biol 112**  
Introductory Biology II *  
(3-3)  
4  

**Mars 210**  
Marine Geography  
(3-0)  
3  

**Math**  
Mathematics Requirement **  
(3-0)  
3  

**OCNG 251**  
Oceanography †  
(3-0)  
1  

**Mars 489**  
Oceanography-Laboratory for Science Majors †  
(0-3)  
1  

**Pols 207**  
State and Local Government  
(3-0)  
3  

Total Hours  
17  

### Sophomore Year

#### Fall Semester

**Chem 101**  
Fundamentals of Chemistry I  
(3-0)  
3  

**Chem 111**  
Fundamentals of Chemistry Laboratory I  
(0-3)  
1  

**Comm 203**  
Public Speaking  
(3-0)  
3  

**Mars 280**  
Coastal and Ocean Resources †††  
(3-0)  
3  

**Mars 281**  
Sophomore Seminar in MARS †  
1  

**Phys 218**  
Mechanics  
(3-3)  
4  

or **Phys 201**  
College Physics  
3  

Total Hours  
18  

#### Spring Semester

**Chem 102**  
Fundamentals of Chemistry II  
(3-0)  
3  

**Chem 112**  
Fundamentals of Chemistry Laboratory II  
(0-3)  
1  

**Econ 202**  
Principles of Economics  
(3-0)  
3  

**Mara 363**  
The Management Process  
(3-0)  
3  

Elective in American History †  
1  

Elective in Language, Philosophy and Culture  
3  

Total Hours  
16  

### Junior Year

#### Fall Semester

**Mars 350**  
Advanced Computer Applications †  
(1-2)  
2  

**Mars 425**  
Coastal Wetlands Management (3-0) Credit 3 †  
4  

and **Mars 426**  
Coastal Wetlands Delineation Laboratory (0-3) Credit †  
3  

**Mars 481**  
Seminar †  
1  

**OCNG 420**  
Introduction to Biological Oceanography †  
(3-0)  
3  

**Pols 347**  
Politics of Energy and the Environment  
(3-0)  
3  

or **Mars 432**  
Peak Oil, Global Warming and Resource Scarcity  
3  

Elective †  
1  

Total Hours  
18  

#### Spring Semester

**Ense-210**  
Technical and Business Writing  
(3-0)  
3  

**Mars 310**  
Field Methods in Marine Sciences †††  
(3-0)  
3  

**Mars 430**  
Geological Oceanography - Plate Tectonics †††  
(3-0)  
3  

or **Mars 431**  
Geological Oceanography - Earth's Climate  
1  

**Mars 485**  
Directed Studies †  
3  

**Stat 303**  
Statistical Methods  
(2-2)  
3  

Total Hours  
16  

### Senior Year

**Ocre and First Year of Marm**

#### Fall Semester

**Mars 615**  
Physical and Geochemical Marine Resources †  
(3-2)  
3  

**Mars 625**  
GIS Use in Coastal Resources  
(1-3)  
2  

**Mars 676**  
Environmental Policy  
(3-0)  
3  

Elective †  
3  

Total Hours  
11  

---

87
### Spring Semester
- MARA 664  Marine Natural Resource Economics (3-0)  3
- MARB 650  Marine Biological Resources (3-0)  3
- MARS 675  Environmental Management Strategies for Scientists (2-0)  2
- Professional Elective ‡
  - Total Hours  11

### SECOND YEAR OF MARM

#### Fall Semester
- MARS 635  Environmental Impact Statements and Natural Resource Damage Assessment (3-0)  3
- Professional Elective ‡
  - Total Hours  9

#### Spring Semester
- MARS 652  Sustainable Management of Coastal Margins (3-0)  3
- MARS 680  Integrative Analysis in Marine Resources (2-0)  2
- MARM Elective ‡
  - Total Hours  11

### Total Curriculum Hours for Combined OCRE/MARM 5-Year Program: 144

### Notes for OCRE/MARM 3+2 Program
- All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see the University Core Curriculum at [http://core.iu.edu/](http://core.iu.edu/) for a listing of course options for Communication, Mathematics, Life and Physical Sciences, Language, Philosophy and Culture, Creative Arts, American History, Government and Political Sciences, and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.
- As indicated above, students in the 3-year program will take 32 fewer undergraduate credit hours than other OCRE students. Graduate courses taken in the fourth and fifth year will be counted as credit towards the OCRE degree.
- Credit by Exam credit will be awarded for ECSC 203 and MARS 325 upon completion of examination in MARA 664 and MARS 663 (4 hours).
- Courses adjustments will be allowed for 6 hours of undergraduate elective credit to use 6 hours of MARM elective credits.

---

Notes:
- BIOC 141 is a prerequisite to BIOC 112.
- Depending upon the math sequence selected, the number of credit hours may vary by 1 or 2 credit hours. The Math Requirement may be met by the following:
  1. Either MATH 111 (4 credits), which is preferred for a science-oriented career path, or MATH 112 (3 credits) may be taken. Credit will not be given for both MATH 111 and MATH 142.
  2. Either MATH 152 (4 credits), MATH 141 or MATH 115 may be taken.
- ‡ Indicates required courses in the Ocean and Coastal Resources major. These courses will be used to compute the major GPA. Also, if any upper level MARS or OCNQ elective courses are taken, they will be used in the major GPA.
- † If you are taking OCNM 318, you must take OCNM 318 concurrently.
- ‡ Field experience may also be met with MARS 310 plus one credit hour of a field oriented lab course.
- The total undergraduate hours prior to entering the 5-year program is 100 or 102, depending upon your math selection. After starting the 5-year program, additional undergraduate hours will be taken for a total of 180 undergraduate hours. The total graduate credit hours is 36. Substituting 6 hours of MARM electives for one free and one professional elective and applying 6 hours of credit by exam results in a total of 120 hours. The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and diverse cultures courses.
- Students may choose to take MARS 460 and gain credit for MARS 310 and two hours of professional electives.
- ‡‡ Designated writing intensive course.

1. The 36-hour non-thesis option curriculum is structured with 24 hours of required courses and 12 hours of optional elective courses, of which three hours are additional science, three hours are in law, policy, management, and six hours are of the student's choice. See MARM curriculum pages of the catalog for additional requirements for the thesis option curriculum.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: [GV] BS OCR - 3+2 Program
Campus: Galveston
College: Galveston Campus
Degree: Bachelor of Science
Level: Undergraduate
Majors: Ocean & Coastal Resources
Departments: Marine Science

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Other Course Information
Transfer: 0.000 | 0

This is NOT an official evaluation.

Area Major Coursework (24.000 credits) - Not Met

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unofficial evaluation

**Area Professional Electives (12,000 credits) - Not Met**

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unofficial evaluation

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unofficial evaluation

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Total Credits and GPA 0.000 .00

unofficial evaluation

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Total Credits and GPA 0.000 .00
unofficial evaluation

Area: Language, Philosophy & Culture (3.000 credits) - Not Met

- **Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**

  | No | A. | Lang, Phil, Culture Rand 3hrs |  | Select any course with the Language, Philosophy and Culture attribute [ALPC]. |  | Total Credits and GPA | 0.000 | .00 |

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Area: Creative Arts (3.000 credits) - Not Met

- **Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**

  | No | A. | Creative Arts Requirement |  | Select three hours from any course with the Creative Arts attribute [OCRA]. |  | Total Credits and GPA | 0.000 | .00 |

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Area: Social and Behavioral Science (3.000 credits) - Not Met

- **Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**

  | No | A. | MARS 210 |  |  |  | Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

Area: Citizenship (11.000 credits) - Not Met

- **Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**

  | No | A. | American History Rand 6hrs |  | Select 6 hours from any course with the [KHS] attribute. |  | Total Credits and GPA | 0.000 | .00 |
  | No AND | B. | Political Science Rand 6hrs |  | Take POLS 206 and POLS 207. |  | Total Credits and GPA | 0.000 | .00 |

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Area: General Electives (5.000 credits) - Not Met

- **Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**

  | No | A. | General Electives 5hrs |  | 5 hours of coursework required. See advisor for acceptable courses. |  | Total Credits and GPA | 0.000 | .00 |

unofficial evaluation
unofficial evaluation

Area: University Writing Requirement - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
</tr>
<tr>
<td></td>
<td>Select two courses with the Writing Requirement [UWRT] attribute.</td>
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Total Credits and GPA 0.000 .00

Area: Int'l & Cult Diversity - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
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<tbody>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity</td>
</tr>
<tr>
<td></td>
<td>6 hours required. Select from courses with the International and Cultural Diversity attribute [UCD].</td>
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Total Credits and GPA 0.000 .00

Area: Foreign Language - Not Met

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Foreign Language Reqnt</td>
</tr>
<tr>
<td></td>
<td>Consider one of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
</tr>
<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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Total Credits and GPA 0.000 .00

Area: GPR-Major - Not Met

<table>
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<tr>
<td>No</td>
<td>A. Major GPR 2.0+ yrs</td>
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Total Credits and GPA 0.500 .60

Area: Residence Requirement - Not Met

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</thead>
</table>

Total Credits and GPA 0.000 .00
unofficial evaluation

Back to Display Options

Print
Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Master of Marine Resources Management (Non-Thesis Option) (Five Year Program)

Time Limits: All requirements for the degree must be completed within seven consecutive years.

Degree Plan: A Graduate Degree Plan of at least 35 hrs must be completed with a minimum GPA of 3.000 and no grade lower than C.

Course Limitations: Courses exceeding limits below will not be considered for degree requirements.

1. Only approved courses on the degree plan will be considered for this program.
2. No more than 12 hrs or one-third of the total hours on the degree plan, whichever is greater, may be used. Transfer course work must be completed at an accredited institution with a grade of B or better.
3. No more than 12 hrs taken in a non-degree seeking (GR) classification may be used.
4. No more than 15 percent of the total degree plan hours may be used in any combination of the following categories:
   a. Not more than 4 hrs 684 (Professional Internship) may be used.
   b. Not more than 9 hrs of 665 (Directed Studies) may be used.
   c. Not more than 3 hrs of 680 (Theory of Research) may be used.
   d. Not more than 3 hrs of 695 (Frontiers in Research) may be used.
5. No more than 2 hrs of 681 (Seminar) may be used.
6. No more than 9 hrs of advanced undergraduate courses (300-499) may be used.
7. No correspondence study may be used.
8. No credit hours of extension course work may be used.
9. No credit hours of FREN 601 or GERH 603 may be used.
10. No credit hours of 691 (Research) may be used.

Advisory Committee: The Advisory Committee consists of at least three members of the Graduate Faculty, one of which must be from outside the student's major department.

Residence Requirements: During one semester or 2 consecutive 5-week summer terms, 9 hrs of resident credit must be completed.

Final Examinations: A final comprehensive examination is not required.

Program: MNR [Galv] Syr program
Campus: Galveston
College: Galveston Campus
Degree: Master of Marine Res., Mgmt.
Level: Graduate
Majors: Marine Resources Management
Departments: Marine Science
Catalog Term: Fall 2015 - Galveston
Evaluation Term: Fall 2015 - Galveston
Expected Graduation Date: 12
Request Number: 1
Results as of: Sep 29, 2015
Minors: Concentrations:

<table>
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<tr>
<th>Met</th>
<th>Credits</th>
<th>Courses</th>
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<tr>
<td>Yes</td>
<td>0.000</td>
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<tr>
<td>No</td>
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</tr>
<tr>
<td>Yes</td>
<td>.00</td>
<td>.00</td>
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</table>

This is NOT an official evaluation.

Area: Courses for Degree Plan GPA = Not Met

Description: A minimum degree plan GPA of 3.000 is required. Courses with grades of D, F or U are not acceptable for degree plan credit and must be repeated for a grade of C or better or Satisfactory (S).

Met | Condition | Rule | Subject | Attribute Low | High | Required | Term | Subject | Course Title | Attribute | Credits | Grade | Source | Credits | Courses |
No  | A. No Approved Degree Plan |

| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

Area 2: Courses Not Applied - Met
<table>
<thead>
<tr>
<th>Description</th>
<th>See Graduate Committee Chair or Graduate Advisor for acceptable changes to degree plan coursework.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source</td>
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<tr>
<td>No</td>
<td>A. Additional Unused Courses</td>
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<tr>
<td>Total Credits and GPA</td>
<td>0.000 0.00</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>Graded Degree Plan Courses - Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A grade of C or better is required in all courses listed.</td>
</tr>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source</td>
</tr>
<tr>
<td>No</td>
<td>A. No Approved Degree Plan</td>
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<tr>
<td>Total Credits and GPA</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area</th>
<th>S/U Degree Plan Courses - Met</th>
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<tbody>
<tr>
<td>Description</td>
<td>A grade of S is required in all courses listed.</td>
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<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source</td>
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<tr>
<td>No</td>
<td>A. No S/U Courses on Degree Plan</td>
</tr>
<tr>
<td>Total Credits and GPA</td>
<td>0.000 0.00</td>
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unofficial evaluation

Back to Display Options

Print
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation
Master of Marine Resources Management Five Year Program - Thesis Option

Time Limits: All requirements for the degree must be completed within seven consecutive years.

Degree Plans: A Graduate Degree Plan of at least 36 hrs must be completed with a minimum GPA of 3.00 and no grade lower than C. At least one hour of 691 (Research) must be included.

Course Limitations: Courses exceeding limits below will not be considered for meeting degree requirements.

1. Only approved courses on the degree plan will be considered for this program.
2. No more than 12 hrs or one-third of the total hours on the degree plan, whichever is greater, may be used. Transfer course work must be completed at an accredited institution with a grade of B or better.
3. No more than 12 hrs taken in a non-degree seeking (GS) classification may be used.
4. No more than 12 hrs may be used in any combination of the following categories:
   a. Not more than 8 hrs of 691 (Research) may be used.
   b. Not more than 6 hrs of 685 (Directed Studies) may be used.
   c. Not more than 3 hrs of 600 (Theory of Research) may be used.
   d. Not more than 3 hrs of 635 (Projects in Research) may be used.
5. No more than 2 hrs of 681 (Seminar) may be used.
6. No more than 9 hrs of advanced undergraduate courses (300-499) may be used.
7. No correspondence study may be used.
8. No credit hours of extension course work may be used.
9. No credit hours of PMRN 691 or GRM 693 may be used.

Advisory Committee: The advisory committee consists of at least three members of the Graduate Faculty, one of which must be from outside the student's major department.

Residence Requirements: During one semester or 2 consecutive 5-week summer terms, 9 hrs of resident credit must be completed.

Research Proposals: A thesis proposal approved by the Advisory Committee, Department Head and the Office of Graduate Studies is required.

Thesis Defense: The thesis defense may be written and/or oral. The defense may be waived for students with a 3.00 degree plan GPA and the permission of the Advisory Committee, Department Head and the Office of Graduate Studies. The request to hold the defense must be submitted to the Office of Graduate Studies a minimum of 10 working days in advance of the scheduled date.

To be eligible to hold the defense, the student:

1. must have a graduate GPA of at least 3.00 (listed as "Program GPA" below),
2. must have a Degree Plan GPA of at least 3.00 with no grade lower than a C in any course on the degree plan,
3. must have an approved research proposal,
4. must have completed or be registered for all remaining degree plan course work,
5. must be registered in the university,
6. must have the thesis in final form and ready for distribution to all committee members,

Thesis: The final version of the thesis must be cleared by the Office of Graduate Studies no later than one year after the defense or within the seven year time limit, whichever is first.

<table>
<thead>
<tr>
<th>Program</th>
<th>NHR (Grad) Syr program</th>
<th>Catalog Term</th>
<th>Fall 2015 - Galveston</th>
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<tbody>
<tr>
<td>Campus</td>
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<td>Evaluation Term</td>
<td>Fall 2015 - Galveston</td>
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<tr>
<td>College</td>
<td>Galveston Campus</td>
<td>Expected Graduation Date</td>
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<tr>
<td>Degree</td>
<td>Master of Marine Res. Mgmt.</td>
<td>Request Number</td>
<td>Sep 29, 2015</td>
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<td>Level</td>
<td>Graduate</td>
<td>Results as of</td>
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<td>Majors</td>
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<td>Minor(s)</td>
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<td>Departments</td>
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<td>Concentrations</td>
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<tr>
<td>Program GPA</td>
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<td>Other Course Information</td>
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</table>

This is NOT an official evaluation.

Area: Courses for Degree Plan GPA - Not Met
Description: A minimum degree plan GPA of 3.00 is required. Courses with grades of D, F or U are not acceptable for degree plan credit and must be repeated for a grade of C
<table>
<thead>
<tr>
<th>Area: Courses Not Applied - Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description: See Graduate Committee Chair or Graduate Advisor for acceptable changes to degree plan coursework.</td>
</tr>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits</td>
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<tr>
<td>No: A. Additional Unused Courses</td>
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<tr>
<td>Total Credits and GPA 0.000 .00</td>
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unofficial evaluation

<table>
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<tr>
<th>Area: Graded Degree Plan Courses - Not Met</th>
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<tbody>
<tr>
<td>Description: A grade of C or better is required in all courses listed.</td>
</tr>
<tr>
<td>Met: Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits</td>
</tr>
<tr>
<td>No: A. No Approved Degree Plan</td>
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<tr>
<td>Total Credits and GPA 0.000 .00</td>
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unofficial evaluation

<table>
<thead>
<tr>
<th>Area: S/U Degree Plan Courses - Not Met</th>
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<tbody>
<tr>
<td>Description: A grade of S is required in all courses listed.</td>
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<td>No: A. No Approved Degree Plan</td>
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<tr>
<td>Total Credits and GPA 0.000 .00</td>
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</tbody>
</table>

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Back to Display Options

Print
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:
   - Undergraduate [X]
   - Graduate [ ]
   - First Professional (e.g., DPM, JD, MD, etc.) [ ]

2. Request change for:
   - Degree Program [X]
   - Minor [ ]
   - Certificate [ ]

3. Request submitted by (Department or Program Name):
   Maritime Administration

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   BS in Maritime Administration

5. Brief description of change:
   Change MGMT 211 to a required course and reduce number of required general elective hours. Add MARA 475 (new course approval in process) as a MARA directed elective.

6. Rationale for change:
   Making MGMT 211 a required course is necessary for achieving the MARA department's AACSB accreditation goal and will reduce the number of general electives needed to fulfill the degree program. Adding MARA 475 as a permanent MARA directed elective to curriculum.

7. Use the checkboxes below to make sure that all information is included.
   - a. Proposed curriculum attached. [X] [ ]
   - b. Current catalog curriculum with handwritten edits attached. [X] [ ]
   - c. Current Howdy degree evaluation with handwritten edits attached. [X] [ ]

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? [ ] [X]
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? [ ] [X]

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F5E7FA-9A22-4F11-2756AD3BBF011360

9. If proposed changes affect other unit(s), are letters of support attached? [ ] [X]

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

A approval recommended by:

[Signature]

Chair, College Review Committee

[Date]

Questions regarding this form should be directed to Curricular Services at 845-8201 or anotw.williams@tamu.edu

Curricular Services • 04/14
Curriculum in Maritime Administration (MARA)

This curriculum is designed to prepare the graduate for administrative work in marine and maritime industries and/or governmental organizations involved in coastal, marine and maritime activities. The curriculum provides a strong foundation in management, finance, business analysis, accounting, and economics. This business and administrative curriculum integrates courses that specialize in marine and maritime activities such as port operations, brokerage and chartering, maritime law and inland waterways.

Minors

Maritime Administration majors may choose to obtain a minor in economics. To earn the economics minor, the MARA student's elective hours must include BCON 311, BCON 323 and BCON 452. For more information, see the website: http://www.tmu.edu/academic/Minors.html.

Students in other majors may choose to obtain a minor in Maritime Administration. See the Minor section of this catalog for curriculum information.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARA 205</td>
<td>Introduction to Ships and Shipping †</td>
<td>(3-3)</td>
<td>4</td>
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<tr>
<td>MATH 141</td>
<td>Business Math I</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>Elective in American History</td>
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<td><strong>Total</strong></td>
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<td>Spring Semester</td>
<td></td>
<td></td>
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<tr>
<td>MARA 250</td>
<td>Management Information Systems †</td>
<td>(2-0)</td>
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<tr>
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<td>Business Math II</td>
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<tr>
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<tr>
<td>Elective in Communication</td>
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<td>Elective in Life and Physical Sciences §</td>
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<tbody>
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<td>Fall Semester</td>
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<tr>
<td>ACCT 229</td>
<td>Introduction to Accounting †</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>BCON 202</td>
<td>Principles of Economics †</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>MARA 301</td>
<td>Ocean Transportation I †</td>
<td>(3-0)</td>
<td>3</td>
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<tr>
<td>Elective in Communication</td>
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<td><strong>Total</strong></td>
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<tr>
<td>Spring Semester</td>
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<tr>
<td>ACCT 230</td>
<td>Introduction to Accounting †</td>
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<td>BCON 203</td>
<td>Principles of Economics †</td>
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<tr>
<td>MARA 212</td>
<td>Business Law †</td>
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<tr>
<td>MARA 212</td>
<td>Seminar in Undergraduate Research Methods †</td>
<td>(1-0)</td>
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<tr>
<td>MARA 304</td>
<td>Ocean Transportation I †</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>(3-0)</td>
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<td><strong>Total</strong></td>
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75
### JUNIOR YEAR

**Fall Semester**  
- MARA 363  
  Management Process †  
  (3-0)  
  3  
- MKTG 321  
  Marketing †  
  (3-0)  
  3  
- SCMT 303  
  Statistical Methods †  
  (3-0)  
  3  
- Elective in MARA ††  
  3  
- Elective in MARA ††  
  3

**Spring Semester**  
- FINC 341  
  Business Finance †  
  (3-0)  
  3  
- SCMT 364  
  Operations Management †  
  (3-0)  
  3  
- Elective in Creative Arts  
  3  
- Elective in Language, Philosophy and Culture  
  3  
- Elective in MARA ††  
  3

**SENIOR YEAR**

**Fall Semester**  
- MARA 373  
  Personnel Management †  
  (3-0)  
  3  
- MARA 421  
  Admiralty Law †  
  (3-0)  
  3  
- MARA 440  
  Global Economy and Enterprise Management ††  
  3  
- Elective in MARA ††  
  3

**Spring Semester**  
- MARA 466  
  Strategic Management ††  
  (3-0)  
  3  
- MGMT 481  
  Seminar in Management †  
  (1-0)  
  1  
- Elective in MARA ††  
  3  
- Elective in MARA ††  
  3  
- Elective (General)  
  4

**Total Hours**  
120

### Notes for Maritime Administration

All electives must be chosen in consultation with, and approved by, the student’s academic advisor. Please consult the University Class Curriculum at [http://classcurriculum.com](http://classcurriculum.com) for a listing of course options for Communication, Mathematics, Life and Physical Science, Language, Philosophy and Culture, Electrical and Computer, Physical Science, Government and Political Science, and Social and Behavioral Sciences. The 8-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

* Designated writing intensive course.
† Indicates required course in the Maritime Administration major. These courses will be used to complete the major OPR. At the time of graduation, a MARA major must have a GPA of 2.25 in their major. A MARA major must achieve a grade of C+ or better in ECON 302, ECON 492, ACC 2122P, ACC 2123P, and ECON 339 as a graduation requirement. These courses may be repeated as necessary to meet this requirement, and the requirement applies to courses taken at UAB and other institutions.
‡ Students must satisfy the 9-credit hour of Life and Physical Science requirement through any combination of the three, three or more courses.
§ The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or foundational/ liberal arts courses.

- MARA Electives: Students are required to complete 18 credit hours of MARA electives. Students should choose 6 from the following courses:
  - ACP 411, ACP 416, ECON 311, ECON 201, ECON 450, SCMT 335, MATH 340, MATH 401, MATH 405, MATH 410, MATH 415, MATH 420, MATH 460.
  - MARA 410, MARA 420, MARA 430, MARA 440, MARA 470, MARA 480, MARA 484, MARA 496, MARA 497.

To earn the concentration minor, the student's elective hours must include ECON 311, ECON 323 and ECON 412. For additional information, please see the website [http://www.tamu.edu/administration/61/recent.htm](http://www.tamu.edu/administration/61/recent.htm).
Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: [GV] BS MARA  
Catalog Term: Fall 2015 - Galveston  
Campus: Galveston  
Evaluation Term: Fall 2015 - Galveston
College: Galveston Campus  
Expected Graduation Date: 262
Degree: Bachelor of Science  
Request Number:  
Level: Undergraduate  
Results as of: Sep 18, 2015
Majors: Maritime Administration  
Minors:  
Departments: Maritime Administration  
Concentrations:  

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This is NOT an official evaluation.

Area: Major Coursework (36.000 credits) - Not Met

| Met Condition | Rule Subject | Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
|---------------|--------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| No            | A.           | ACCT 229                               | Must make a grade of "C" or better.   |                                        |                                        |
| No AND        | B.           | ACCT 230                               | Must make a grade of "C" or better.   |                                        |                                        |
| No AND        | C.           | ECON 202                               | Must make a grade of "C" or better.   |                                        |                                        |
| No AND        | D.           | ECON 203                               | Must make a grade of "C" or better.   |                                        |                                        |
| No AND        | E.           | FINC 341                               |                                        |                                        |                                        |
| No AND        | F.           | SCHT 303                               |                                        |                                        |                                        |
| No AND        | G.           | SCHT 364                               |                                        |                                        |                                        |
| No AND        | H.           | MARA 205                               |                                        |                                        |                                        |
| No AND        | I.           | MARA 212                               |                                        |                                        |                                        |
| No AND        | J.           | MARA 250                               |                                        |                                        |                                        |
| No AND        | K.           | MARA 281                               |                                        |                                        |                                        |
| No AND        | L.           | MARA 301                               |                                        |                                        |                                        |

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9/18/2015
### Detail Requirements

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**Total Credits and GPA**: 0.000

*unofficial evaluation*

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### Area: Supporting Coursework (18.000 credits) - Not Met

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<td>Directed Electives 18hrs</td>
<td>Select 18 hours from the following courses: ACCT 315, 316; ECON 313, 323, 452; SCMT 335; MARA 342, 401, 412, 418, 424, 435, 450, 460, 470, 494, 485, 489; MISA 491*, MIRA 493*, MIRA 475*; approved in July 2015</td>
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**Total Credits and GPA**: 0.000

*unofficial evaluation*

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**Total Credits and GPA**: 0.000

*unofficial evaluation*

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**Total Credits and GPA**: 0.000

*unofficial evaluation*

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**Total Credits and GPA**: 0.000

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**Detail Requirements**

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<table>
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<th>Area: Language, Philosophy &amp; Culture (3,000 credits) - Not Met</th>
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Total Credits and GPA: 0.000

**unofficial evaluation**

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Total Credits and GPA: 0.000

**unofficial evaluation**

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**unofficial evaluation**

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Total Credits and GPA: 0.000

**unofficial evaluation**

| Area: | Work Not Applied - Met |
|--------------------------------|
| Description: See advisor for acceptable substitutions. |

**Met** | **Condition Rule** | **Subject Attribute** | **Low High** | **Required Required** | **Term Subject Course** | **Title Attribute Credits** | **Courses** |

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unofficial evaluation

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<td>6 hours required. Select from courses with the International and Cultural Diversity Attribute (UICD).</td>
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<td>Complete one of the following: 1. Two years of the same foreign language in High School. 2. A two semester sequence of the same foreign language for University credit.</td>
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9/18/2015
Detail Requirements

Required Required
Credits Courses

A. Residence - Major 12 hrs
B. Residence 24 hrs

unofficial evaluation

Back to Display Options

Print
# Texas A&M Galveston - Maritime Administration

## Course Registration

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### Comments:

1. Students may satisfy the 9 credit hour life and physical science requirement through any combination of one, three or four credit hour courses.
2. The 6 hours communications electives requirement can be satisfied at TAMUG using COMM 203, ENGL 104 or ENGL 203.
3. Select from ACCT 315, ACCT 316, ECON 311, ECON 323, ECON 452, SCMT 336, MARA 242, MARA 401, MARA 402, MARA 416, MARA 424, MARA 435, MARA 450, MARA 460, MARA 470, MARA 475, MARA 484, MARA 485, MARA 489, MARA 491, MARA 493.

Legend:
- **T** - Credit by Transfer
- **CR** - Credit by Examination
- **Q** - Q-Drop
- **R** - Registered in Current Semester
- **★** - Courses requiring a grade of "C" or better
- **♀** - Writing Intensive if Section 900 course
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARITIME ADMINISTRATION
BS IN MARITIME ADMINISTRATION AND MASTER OF MARITIME ADMINISTRATION
AND LOGISTICS (3+2)
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: □ Undergraduate □ Graduate □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: □ Degree Program □ Minor □ Certificate

3. Request submitted by (Department or Program Name): Maritime Administration

4. Program Designation and Name: MMAL: Masters in Maritime Administration and Logistics (3+2 non-thesis option)

5. Brief description of change:

Change MGMT 211 to a required course and reduce number of required general elective hours. Add MARA 475 and MARA 675 (new course approvals in process) as MARA directed electives.

6. Reasons for change:

Making MGMT 211 a required course is necessary for achieving the MARA department’s AACSB accreditation goal and will reduce the number of general electives needed to fulfill the degree program. Adding MARA 475 and MARA 675 as permanent MARA directed electives to curriculum.

7. a. Proposed curriculum attached. □ Yes □ No

b. Current catalog curriculum with handwritten edits attached. □ Yes □ No

c. Current Howdy degree evaluation with handwritten edits attached. □ Yes □ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes □ No

b. If yes, degree program hours will change from: _______ to: _______

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]
Department Head or Program Chair (Title, Name & Sign) Date

[Signature]
Chair, College Review Committee Date

[Signature]
Dean of Colleges Date

[Signature]
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sanders.williams@tamu.edu.
Curricular Services — 04/14
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type:
   - Undergraduate
   - Graduate
   - First Professional (e.g., DVM, JD, MD, etc.)
2. Request change for:
   - Degree Program
   - Minor
   - Certificate
3. Request submitted by (Department or Program Name):
   Maritime Administration and Logistics
4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in Edu)
   MMAL: Masters in Maritime Administration and Logistics (3+2 thesis option)
5. Brief description of change:
   Change MGMT 211 to a required course and reduce number of required general elective hours. Add MARA 475 and MARA 675 (new course approvals in process) as MARA directed electives.

6. Rationale for change:
   Making MGMT 211 a required course is necessary for achieving the MARA department’s AACSB accreditation goal and will reduce the number of general electives needed to fulfill the degree program. Adding MARA 475 and MARA 675 as permanent MARA directed electives to curriculum.

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☐Yes ☐No
   b. Current catalog curriculum with handwritten edits attached. ☐Yes ☐No
   c. Current Howdy degree evaluation with handwritten edits attached. ☐Yes ☐No

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increased/decreased) due to the proposed curriculum changes? ☐Yes ☐No
   b. If yes, degree program hours will change from: ☐
   c. If yes, is the Texas Higher Education Coordinating Board form attached?
      http://www.thecb.state.tx.us/index.cfm?objectid=A09F77FA-5A92-4F11-2756AD3D41F1D60
      ☐Yes ☐No

9. If proposed changes affect other unit(s), are letters of support attached? ☐Yes ☐No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCCOGC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]
Date 10-19-15

[Signature]
Date 10-19-15

[Signature]
Date 10-19-15

Chair, College Review Committee

Questions regarding this form should be directed to Curriculum Services at 845-8201 or sandra.williams@tamu.edu.
Curriculum Services — 06/14
5-Year Curriculum: Maritime Administration (MARA) and Master of Maritime Administration and Logistics (MMAL)

This program allows Maritime Administration (MARA) majors to enter the graduate program for a Master of Maritime Administration and Logistics the beginning of their senior year, enabling students to receive their MARA undergraduate degree (B.S.) and a Master of Maritime Administration and Logistics (MMAL) graduate degree in five years.

Students admitted to the 5-year degree program will have completed 92 of the 120 hours of course work required to receive a bachelor's degree. These courses must include the specific prerequisites for a Bachelor of Science degree in Maritime Administration, as well as the required Texas A&M University core curriculum courses.

Maritime Administration majors who have at least a 3.25 GPA and who have taken all of their prerequisite courses and otherwise completed 92 hours by the fall of their fourth year will be eligible to apply for the 5-year program during their junior year. Applicants to the 5-year program will submit the same materials (including GMAT scores) as other MMAL applicants, and those whose records are judged to be competitive by the mid-January deadline will be admitted. Admission criteria will be the same as for other MMAL students.

Students who choose not to finish the MMAL degree after being admitted to the 5-year program may exit the program at any time. Completed MMAL courses will be applied to their bachelor's degree in Maritime Administration, as appropriate. Failure to complete the MMAL program will in no way impede their ability to obtain a bachelor's degree in Maritime Administration when the requirements for that degree are completed. Those who pursue the joint program will receive both degrees upon completion of the entire 5-year program. Students will not graduate with a bachelor's degree in year four, but rather will earn both their Bachelor of Science and Master of Maritime Administration and Logistics at the end of year five.

Admitted students will be enrolled in Maritime Administration and Logistics graduate courses with an undergraduate classification until the fall of their fourth year and will be reclassified as degree seeking master's students (G7) upon completing 107 credit hours. This will normally occur at the beginning of the spring semester of year four. Students will take 12 fewer undergraduate credit hours. Graduate courses taken in the fifth year program will be counted double, as credit towards their MMAL degree and as substitutes for MARA and free electives required for the bachelor's degree.

Students will be required to complete 36 graduate hours. The graduate hours will include 7 core courses (21 credits) in economics, management, operations and logistics with 15 credit hours of electives. The electives will be chosen according to the interest of the student in either the Maritime Policy and Law track or the Shipping and Port Management track. Students will also take 21 hours of undergraduate level MARA electives that must include MARA 418 in order to satisfy the TAMU Intensive writing requirement.

**FRESHMAN YEAR**

**Fall Semester**
- MATH 141: Introduction to Ships and Shipping † (3-2) 4
- POLS 206: Business Math I (3) 3
- Elective in American History (3-0) 3
- **Total** 13

**Spring Semester**
- MATH 250: Management Information Systems † (2-0) 2
- MATH 142: Business Math II (3-0) 3
- Elective in Communication
- Elective in American History
- Elective in Life and Physical Sciences ‡ (3-0) 3
- **Total** 16

**SOPHOMORE YEAR**

**Fall Semester**
- ACCT 229: Introduction to Accounting † (3-0) 3
- BCON 202: Principles of Economics † (3-0) 3
- MATH 301: Ocean Transportation I † (3-0) 3
- Elective in Communication
- Elective in Life and Physical Sciences ‡ (3-0) 3
- **Total** 15

**Total** 56
### Spring Semester
- ACCT 230: Introduction to Accounting †  (3-0) 3
- ECON 203: Principles of Economics †  (3-0) 3
- MARA 212: Business Law †  (3-0) 3
- MARA 281: Seminar in Undergraduate Research Methods †  (1-0) 1
- MARA 304: Ocean Transportation II †  (3-0) 3
- FOLS 207: State and Local Government  (3-0) 3

**Total:** 16

### JUNIOR YEAR
#### Fall Semester
- MARA 373: Personnel Management †  (3-0) 3
- MARA 421: Admistrative Law †  (3-0) 3
- SCMT 303: Statistical Methods †  (3-0) 3
- Elective in MARA † †  (3-0) 3
- Elective in Physical Science † †  (3-0) 3

**Total:** 16

### Spring Semester
- MARA 440: Global Economy and Enterprise Management † † †  (3-0) 3
- MGMT 481: Seminar in Management †  (1-0) 1
- Elective in Creative Arts  (3-0) 3
- Elective in Language, Philosophy and Culture  (3-0) 3
- Elective in MARA † †  (3-0) 3

**Total:** 16

Total Hours to be completed prior to admission to the graduate courses: 92

### SENIOR YEAR/FIRST YEAR OF FIVE-YEAR PROGRAM
#### Fall Semester
- MARA 636: Managerial Decision Making  (3-0) 3
- MARA 641: Financial Management in Marine Transportation  (3-0) 3
- MARA 627: Marketing of Transportation Services  (3-0) 3
- Elective in MARA † †  Undergraduate MARA Elective  (3-0) 3
- Elective in MARA † †  Undergraduate MARA Elective  (3-0) 3

**Total:** 15

#### Spring Semester
- MARA 623: Economics Issues in Shipping  (3-0) 3
- MARA 664: Production, Operations and Logistics Management  (3-0) 3
- MARA 610: International Strategic Planning and Implementation  (3-0) 3
- Elective in MARA † †  Undergraduate MARA Elective  (3-0) 3

**Total:** 12

### SECOND YEAR OF FIVE-YEAR PROGRAM
#### Fall Semester
- MARA 624: Intermodal Transportation Operations  (3-0) 3
- MMAL Elective †  Graduate MMAL Elective  (3-0) 3
- MMAL Elective †  Graduate MMAL Elective  (3-0) 3
- Elective (General)  (3-0) 3

**Total:** 13

#### Spring Semester
- MMAL Elective †  Graduate MMAL Elective  (3-0) 3
- MMAL Elective †  Graduate MMAL Elective  (3-0) 3
- MMAL Elective †  Graduate MMAL Elective  (3-0) 3
- Elective (General)  (3-0) 3

**Total:** 12

**Total Hours:** 144
Notes for the MARA/MMAL 3+2 Program

Note: All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://gco.tamu.edu](http://gco.tamu.edu) for a listing of course options for Communication, Mathematics, Life and Physical Sciences, Languages, Philanthropy and Culture, Creative Arts, American History, Government and Political Science, and Social and Behavioral Science. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

† Indicates required courses in the Maritime Administration major. These courses will be used to compute the major GPA. At the time of graduation, a MARA major must have a GPA of ≥ 2.25 in their major. A MARA major must achieve a grade of "C" or better in BCON 203, BCON 205, ACCT 225, ACCT 228, and BMCT 303 as a graduation requirement. These courses may be repeated as necessary to meet this requirement, and the requirement applies to courses taken at TAMU or offered for transfer from other institutions.

‡ Students may satisfy the 9-credit hours of Life and Physical Science requirement through any combination of one, three, or four credit hour courses.

ο The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses.

V - MARA Bicevise: Students are required to complete 31 credit hours of MARA electives that must include MARA 416 to satisfy the intensive writing requirement. Students should choose 6 from the following courses:

ACCT 313, ACCT 315, BCON 311, BCON 323, BMCT 336, MARA 342, MARA 401, MARA 402, MARA 416, MARA 424, MARA 435, MARA 450, MARA 460, MARA 470, MARA 484, MARA 485, MARA 489, MARA 491*, MARA 493*, MARA 475

+ Choose 15 credit hours from the following graduate level MARA elective courses: MARA 604, MARA 615, MARA 640, MARA 650, MARA 652, MARA 655, MARA 660, MARA 670, MARA 672, or MARA 620, MARA 640, MARA 660, MARA 676, MARA 615

*approved in July 2015
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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This is NOT an official evaluation.

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<tr>
<td>No</td>
<td>AND</td>
<td>J.</td>
<td>MARA 304</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>K.</td>
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<td>AND</td>
<td>L.</td>
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<td>AND</td>
<td>M.</td>
<td>MARA 421</td>
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<td>AND</td>
<td>N.</td>
<td>MARA 440</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>O.</td>
<td>MARA 466</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>P.</td>
<td>MGMT 481</td>
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<td>No</td>
<td>AND</td>
<td>Q.</td>
<td>MARA 623</td>
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**Detail Requirements**

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<th>Supporting coursework (21.000 credits) - Not Met</th>
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<th>Rule</th>
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<th>Course</th>
<th>Title</th>
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<th>Courses</th>
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<td>No AND A.</td>
<td>MARA 416</td>
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<td>No AND B.</td>
<td>Directed Electives 10hrs</td>
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<td>approved in July 2015</td>
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**Unofficial evaluation**

**Area : Communication (6.000 credits) - Not Met**

<table>
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<tr>
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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Attribute</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>A.</td>
<td>Communication Requirement</td>
<td>Select 6 hours from any courses with the Communication attribute (KCOM).</td>
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**Unofficial evaluation**

**Area : Mathematics (6.000 credits) - Not Met**

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<th>Subject</th>
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<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tbody>
<tr>
<td>A.</td>
<td>MATH 141</td>
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<td>B.</td>
<td>MATH 142</td>
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**Unofficial evaluation**

**Area : Life and Physical Sciences (9.000 credits) - Not Met**

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<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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<th>High</th>
<th>Required</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Courses</th>
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<tr>
<td>A.</td>
<td>Life/Physical Sciences 9hrs</td>
<td>Select 9 hours from any courses with the Life and Physical Sciences attribute (KLP5).</td>
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**Unofficial evaluation**

**Area : Language, Philosophy & Culture (3.000 credits) - Not Met**

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<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
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9/22/2015
### Detail Requirements

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<th>No</th>
<th>A.</th>
<th>Lang, Phil, Culture Rqmt 3hrs</th>
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<tr>
<td></td>
<td></td>
<td>Select any course with the Language, Philosophy and Culture attribute [LPC].</td>
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**Total Credits and GPA** 0.000

unofficial evaluation

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<thead>
<tr>
<th>Area</th>
<th>Creative Arts (3.000 credits) - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Creative Arts Requirement</td>
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<tr>
<td></td>
<td>Select three hours from any course with the Creative Arts attribute [CREAT].</td>
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**Total Credits and GPA** 0.000

unofficial evaluation

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<th>Area</th>
<th>Social and Behavioral Science (3.000 credits) - Not Met</th>
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<td>Met</td>
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</tr>
<tr>
<td>No</td>
<td>A. ECON 202</td>
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**Total Credits and GPA** 0.000

unofficial evaluation

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<tr>
<th>Area</th>
<th>Citizenship (12.000 credits) - Not Met</th>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. American History Rqmt 6hrs</td>
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<tr>
<td></td>
<td>Select 6 hours from any course with the [KUSA] attribute.</td>
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<tr>
<td>No</td>
<td>AND D. Political Science Rqmt 6hrs</td>
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<tr>
<td></td>
<td>Take POLS 206 and POLS 207.</td>
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**Total Credits and GPA** 0.000

unofficial evaluation

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<tr>
<th>Area</th>
<th>General Electives (12.000 credits) - Not Met</th>
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<td>Met</td>
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<td>No</td>
<td>A. General Electives 12hrs</td>
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<tr>
<td></td>
<td>12 hours of coursework required. Must have advisor approval (FNSCI 103 and CAEN 691-693 are excluded.)</td>
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</tbody>
</table>

**Total Credits and GPA** 0.000

unofficial evaluation

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9/22/2015
### Detail Requirements

#### Area: Work Not Applied - Met
**Description:** See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
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</tbody>
</table>

#### unofficial evaluation

#### Area: University Writing Requirement - Not Met
**Met:** Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A. Writing Requirement</th>
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<td></td>
<td>Select two courses with the Writing Requirement [WRI] attribute.</td>
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#### unofficial evaluation

#### Area: Int'l & Cult Diversity - Not Met
**Met:** Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A. Int'l &amp; Cultural Diversity</th>
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<tr>
<td></td>
<td>6 hours required, Select from courses with the International and Cultural Diversity attribute [IUCD].</td>
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#### unofficial evaluation

#### Area: Foreign Language - Not Met
**Met:** Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses

<table>
<thead>
<tr>
<th>No</th>
<th>A. Foreign Language Rqmt</th>
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<tr>
<td></td>
<td>Complete one of the following:</td>
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<tr>
<td></td>
<td>1. Two years of the same foreign language in High School,</td>
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<tr>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
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</table>

#### unofficial evaluation

#### Area: GPR-Major - Not Met
**Description:** Must have a minimum GPA of 2.25 must be maintained on all major field of study courses.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Major GPR 74+ hrs</td>
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</table>

#### unofficial evaluation

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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

9/22/2015
Area: Residence Requirement - Not Met
Description: Student must complete minimum of 36 hours of 300-400 level course work at Texas A&M University, 12 hours must be in field of study

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
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<th>Courses</th>
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<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td></td>
<td>Residence</td>
<td>Major</td>
<td>12hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Residence</td>
<td>24hrs</td>
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</table>

Total Credits and GPA

unofficial evaluation

Back to Display Options
# Detail Requirements

## Program Evaluation

**Master of Maritime Administration and Logistics**

**Time Limits:** All requirements for the degree must be completed within seven consecutive years.

**Degree Plan:** A Graduate Degree Plan of at least 36 hrs must be completed with a minimum GPA of 3.00 and no grade lower than C.

**Course Limitations (non-thesis option):** Courses exceeding limits below will not be considered for meeting degree requirements.

1. Only approved courses on the degree plan will be considered for this program.
2. No more than 12 hrs or one-third of the total hours on the degree plan, whichever is greater, may be used. Transfer course work must be completed at an accredited institution with a grade of B or better.
3. No more than 12 hrs taken in a non-degree seeking (GS) classification may be used.
4. No more than 25 percent of the total degree plan hours may be used in any combination of the following categories:
   a. Not more than 4 hrs 694 (Professional Internship) may be used.
   b. Not more than 9 hrs of 685 (Directed Study) may be used.
   c. Not more than 3 hrs of 680 (Theory of Research) may be used.
   d. Not more than 3 hrs of 695 (Frontiers in Research) may be used.
5. No more than 2 hrs of 681 (Seminar) may be used.
6. No more than 9 hrs of advanced undergraduate courses (300–499) may be used.
7. No correspondence study may be used.
8. No credit hours of extension course work may be used.
9. No credit hours of 697 or 698 may be used.
10. No credit hours of 691 (Research) may be used.

**Advisory Committee:** The Advisory Committee consists of the chair of the advisory committee.

**Residence Requirements:** During one semester or 2 consecutive 5-week summer terms, 9 hrs of resident credit must be completed.

**Final Examinations:** A final comprehensive examination is required for thesis option students. The final examination may be written and/or oral. The request to hold and announce the final examination must be submitted to the Office of Graduate Studies a minimum of 10 working days in advance of the scheduled date.

To be eligible to hold the defense, the student:

1. must have a graduate GPA of at least 3.00 (listed as "Program GPA" below).
2. must have a Degree Plan GPA of at least 3.00 with no grade lower than a C in any course on the degree plan.
3. must have completed or be registered for all remaining degree plan course work.

A final comprehensive exam is not required for non-thesis option students.

<table>
<thead>
<tr>
<th>Program:</th>
<th>Master of Maritime Administration and Logistics (MML, Galveston)</th>
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<tbody>
<tr>
<td>Catalog Term:</td>
<td>Fall 2015 - Galveston</td>
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<tr>
<td>Evaluation Term:</td>
<td>Fall 2015 - Galveston</td>
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<tr>
<td>Expected Graduation Date:</td>
<td>May 20, 2016</td>
</tr>
<tr>
<td>Request Number:</td>
<td>7</td>
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<tr>
<td>Results as of:</td>
<td>Sep 18, 2015</td>
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<td>Minor(s):</td>
<td>Maritime Admin &amp; Logistics</td>
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### Met Credits

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<td>Total Required</td>
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<td>Program GPA</td>
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<td>Overall GPA</td>
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**Other Course Information**

| Transfer | 0.000 | 5 |
| In Progress | 6.000 | 2 |
| Unused | 98.000 | 36 |

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9/18/2015
Detail Requirements

This is NOT an official evaluation.

**Area :** Courses for Degree Plan GPR - Not Met
**Description :** A minimum degree plan GPR of 3.000 is required. Courses with grades of D, F or U are not acceptable for degree plan credit and must be better or Satisfactory (S).

<table>
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<tr>
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<tbody>
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<td>No</td>
<td>A. No Approved Degree Plan</td>
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<td></td>
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**AREA : SUPPORTING COURSEWORK**

**A. Directed electives**

- Choose 15 credit hours from the following graduate level M&M, elective courses: MARA 604, MARA 616, MARA 640, MARA 650, MARA 652, MARA 658, MARA 660, MARA 670, MARA 672 or MARS 620, MARS 640, MARS 660, MARS 670, MARA 675

**Area :** Courses Not Applied - Not Met
**Description :** See Graduate Committee Chair or Graduate Advisor for acceptable changes to degree plan coursework.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribl C Credits Courses</th>
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<tbody>
<tr>
<td>Yes</td>
<td>A. Additional Unused Courses</td>
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unofficial evaluation

**Area :** Graded Degree Plan Courses - Not Met
**Description :** A grade of C or better is required in all courses listed.

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<thead>
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<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribl C Credits Courses</th>
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<tbody>
<tr>
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<td>A. No Approved Degree Plan</td>
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</tbody>
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unofficial evaluation

**Area :** S/U Degree Plan Courses - Met
**Description :** A grade of S is required in all courses listed.

<table>
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<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribl C Credits Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>A. No S/U Courses on Degree Plan</td>
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</table>

unofficial evaluation

E-mail Julieanna R. Cardoso

Back to Display Options

Print

<table>
<thead>
<tr>
<th>Course</th>
<th>CR</th>
<th>GR</th>
<th>Substitution</th>
<th>REQ</th>
<th>Init</th>
<th>Course</th>
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<th>GR</th>
<th>Substitution</th>
<th>REQ</th>
<th>Init</th>
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<td><strong>FRESHMAN YEAR</strong></td>
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<td><strong>SPRING SEMESTER</strong></td>
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<td>History Elective</td>
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<td>unw</td>
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<td></td>
<td>prg</td>
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<td>History Elective</td>
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<td>unw</td>
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<td>MATH 141 Business Math I</td>
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<td>Elective in Science*</td>
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<td><strong>SOPHOMORE YEAR</strong></td>
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<td></td>
<td></td>
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* Students may satisfy the 9 credit hour life and physical science requirement through any combination of one, two or four credit hour courses.

* The 6 hours communications electives requirement can be satisfied at TAMUG using COMM 203, ENGL 104 or ENGL 203.

* Choose from MERA electives: ACCT 315, 316, ECON 311, 323, 352, 379, 386, MERA 342, 491, 492, 416, 435, 460, 475, 494, 485, 489, 491, 493

* Choose from Graduate Level MERA electives: MERA 650, 652, 640, 616, 658, 660, 604, 670, 672, 675, MBA 620, 640, 650, 676

Legend:  
T = Credit by Transfer  
C = Credit by Examination  
G = G-Grp  
R = Registered in Current Semester  
* = Courses requiring a grade of "C" or better  
* = Writing Intensive if section 880 course

Revised: 02/23/08
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Legend: T - Credit by Transfer  CR - Credit by Examination  Q - Q-Drop  R - Registered in Current Semester
<sup>2</sup> - Courses requiring a grade of "C" or better  <sup>2</sup> - Writing Intensive if Section 808 course
TAMUG
SPECIAL CONSIDERATION
TAMUG
SPECIAL CONSIDERATION

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF LIBERAL STUDIES
UNIVERSITY STUDIES DEGREE
AREA OF CONCENTRATION IN MARITIME PUBLIC POLICY AND COMMUNICATION
REQUEST FOR A NEW PROGRAM
Texas A&M University
University Studies Degree
Proposed Area of Concentration

Name of Area of Concentration: Maritime Public Policy and Communication

Department: Department of Liberal Studies

College: Texas A&M University at Galveston

Office responsible for advising students in this Area of Concentration:

a. Office Name/Location: Department of Liberal Studies / CLB 120
b. Telephone Number: 409.740.4463 / 409.740.4556
c. Email: digeorgij@tamug.edu / viser@tamug.edu

The University Studies degree is an innovative interdisciplinary degree with an area of concentration and two minors, at least one of which is in a different college from that of the area of concentration. The degree serves two main groups of students: first, students who are in good academic standing (GPA of 2.0 or above) but who are unable to find or gain access to a major of interest and (b) students who specifically seek a broad interdisciplinary combination of coursework that is unavailable through existing degree programs.

The educational objective of the University Studies Degree is to provide students with an interdisciplinary academic degree that will prepare them for a successful life and career or for graduate school.

Please append two items to this sheet:

1. A statement that: A) describes the area of concentration and distinguishes it from existing majors, B) explains how this area of concentration would serve at least one of the two main groups of students cited above, and C) indicates how this area of concentration would promote the purposes of the university studies degree as described above. In the case of a College submission, please indicate support from the faculty.

2. The enclosed form for listing courses that will be used in the area of concentration that will be required as prerequisites, and will be used for university core curriculum requirements.

Reviewed and approved by:

Department Head/Program Director
Date

College Undergraduate Curriculum Committee or UCC representative
Date

AOC Dean of College
Date

For Interdisciplinary Degrees Only:

Department Head/Program Director
Date

College Undergraduate Curriculum Committee or UCC representative
Date

AOC Dean of College
Date
Texas A&M University at Galveston
Department of Liberal Studies

Proposed University Studies Degree:
Maritime Public Policy and Communication

1. University Studies in Maritime Public Policy and Communication
   A. As globalization is realized in nearly every aspect of the 21st century human experience, it is increasingly important to establish social, political, and messaging linkages between states, businesses, and communities. Transnational connectivity of this nature must first and foremost begin with an understanding of how public policymaking impacts not only local stakeholders (e.g., citizens, industry, and the host of sciences), but foreign governments and their interests. Furthermore, policymaking and policies do not function in a vacuum. Whether they are complex or simple, right or wrong, public policies are necessarily expressed through a variety of global communication systems that are, in turn, influenced by varied and often dynamic media technologies, reporting practices, laws, and ethics.

   Indeed, in an information age driven at the speed of light via internet connectivity, the continual review, reassessment, and revision of public policy is evermore influenced by not only its content but by the manner it is successfully, or unsuccessfully, communicated to its publics. This is particularly true when it comes to global policies that concern the planet and its resources, such as environmental policy, trade policy, military and refugee policy to name but a few. At the heart of modern governance is the fact that for most civil authorities, maritime issues and the codifying of policy messaging as a function of communication are continuously involved when considering the creation and/or revision of public policy. These authorities are exemplified by the numerous government agencies at the state, national, and global levels that address maritime public policy issues (e.g., National Ocean’s Council, Oceans and Polar Affairs, U.S. Maritime Administration, United Nations International Maritime Organization, etc.). As well, the influence of mass media and communication to affect public policy is reflected in the importance news and information plays in the lives of people everywhere (e.g., CNN, Al Jazeera, Arab Spring, YouTube and Indonesian/Somali Piracy, the California Drought, etc.).

   The proposed University Studies concentration in Maritime Public Policy and Communication (MPPC) links these two important academic fields/disciplines found within Liberal Studies – Public Policy and Communication. It is distinguished from existing majors insofar as it uniquely synthesizes the study of maritime public policy/policymaking with the study of international and intercultural communication methods, laws and regulations, and activism. MPPC students will focus their plan of study within the Texas A&M University at Galveston Department of Liberal Studies (LIST), taking significant LIST coursework in public policy, political science, and communication. In addition, with a course selection pool that includes relevant curricula found in Maritime Administration and Marine Sciences, MPPC students will engage a synergistic and broad interdisciplinary combination of study that is non-existent in any other major.
B. The MPPC concentration is inherently interdisciplinary and combines coursework not heretofore connected by existing degrees on the TAMUG campus. With its focus on maritime issues in public policy and contemporary institutions and methods of global communication, MPPC is a particularly attractive offering for prospective students wishing to acquire a degree from TAMUG in something other than a STEM area. It provides students of good academic standing with an interdisciplinary academic degree that instills a host of skills important to gaining careers in such areas as government, politics, urban planning, business, NGO’s, policymaking, mass media production and administration, journalism, public relations, teaching, and national security. As part and parcel of the TAMUG Department of Liberal Studies, MPPC is particularly well-suited for preparing students for graduate and law schools, and to this end MPPC has the great potential for creating synergy with the TAMUG Department of Maritime Administration graduate program.

C. The MPPC concentration contributes to the university’s strategic growth and allows us to recruit and retain students who want to remain on our campus but are otherwise forced to go to College Station for lack of an interdisciplinary degree at TAMUG. In this, MPPC promotes the purposes of the University Studies degree by building upon existing programs to creatively coalesce courses into a unique and innovative concentration of study centered by maritime public policy and communication. MPPC students will benefit from this concentration of study by acquiring an interdisciplinary degree based in both theoretical and practical experiences in these areas – areas which are vital to modern sensibilities of maritime operations, governance, policymaking, international relations, and messaging systems. For these reasons, an MPPC concentration in the University Studies degree will prove to be a desirable choice of major for types of students not presently served by any existing TAMUG degrees.
COURSE FORM

There needs to be a minimum of 6 hours at 400-level and 36 hours of 300-400 level coursework in residence at Texas A&M University.

A. Select 21-24 hours from among the following courses for the area of concentration. If there will be more than 24 hours in the area of concentration please include a justification. Two approved writing courses will be required for the University Studies degree. The courses may be in the area of concentration or the minors. Please indicate writing courses in the area of concentration, if any, with a W following the course number (TAMU 400 W). If courses required for the area of concentration include a course or courses from outside the department of the area of concentration, please include a letter of support from the department(s) offering the course(s). Courses listed as part of the University Core Curriculum do not need a letter of support.

1. The following 12 hours of course work are required*

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 232</td>
<td>Introduction to Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 340</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>COMM 203</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMM 365</td>
<td>International Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Select 12 hours from the following courses*:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 307</td>
<td>Mass Communication, Law &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM 449</td>
<td>Activism &amp; Communication</td>
<td>3</td>
</tr>
<tr>
<td>POLS 231</td>
<td>Introduction to World Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 347</td>
<td>Politics of Energy &amp; The Environment</td>
<td>3</td>
</tr>
<tr>
<td>MAST 441</td>
<td>Maritime Piracy</td>
<td>3</td>
</tr>
<tr>
<td>MAST 484</td>
<td>Undergraduate Internship (must be concentration-specific)</td>
<td>3</td>
</tr>
<tr>
<td>MAST 336</td>
<td>Maritime Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 314</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MARA 435</td>
<td>Labor Law &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>MARA 440W</td>
<td>Global Economy &amp; Enterprise Management</td>
<td>3</td>
</tr>
<tr>
<td>MARA 470</td>
<td>Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>MARS 432</td>
<td>Peak Oil, Global Warming &amp; Resource Scarcity</td>
<td>3</td>
</tr>
</tbody>
</table>

*If the Area of Concentration requires students to select courses from a list of pre-selected combinations, please duplicate this table; e.g. two course from column A, two courses from column B
3. Prerequisite courses not included in the University Core Curriculum or listed above:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. Student will select two minors (30-36 hours). One must be from outside the college offering the area of concentration.

C. Free electives (17-26 hours). If there will be fewer than 17 hours of free electives please include a justification in the preceding 2-3 page statement.

D. Specify courses in the University Core Curriculum $^1,2,3,4$ that will be required for this area of concentration (42 hours). Please maintain as much flexibility as possible.

<table>
<thead>
<tr>
<th>Course Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>COMM 203 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Life and Physical Sciences</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Language, Philosophy and Culture</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Creative Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American History</td>
<td>POLS 206 &amp; 207</td>
<td>6</td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

NOTES: $^1$ To be selected from the University Core Curriculum.

$^2$ There is a graduation requirement which includes 6 hours of international and cultural diversity courses. Refer to the International and Cultural Diversity table for a list of acceptable courses. A course satisfying a University Core category, a college/department requirement, or as a free elective may be used to satisfy this requirement.

$^3$ Completion in high school of two units of the same foreign language or one year of college work is required for graduation.

$^4$ Must complete the writing requirement. The requirement may be met by taking two writing (W) courses or one writing (W) course and one oral communication (C) course. The requirement may not be met by taking any course listed as a University Core Curriculum communication requirement, nor may it be met through credit by examination.

$^5$ Minimum of 120 credits are required for baccalaureate degree.
SPECIAL CONSIDERATION
SPECIAL CONSIDERATION

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
DEPARTMENT OF HEALTH AND KINESIOLOGY
BS IN KINESIOLOGY AND MS IN ATHLETIC TRAINING
REQUEST FOR A NEW 3+2 PROGRAM
October 15, 2015

To: Tim Scott  
Chair, Undergraduate Curriculum Committee

Through: George Cunningham  
Associate Dean, College of Education and Human Development  
Chris Cherry  
Assistant Dean, College of Education and Human Development

From: Richard Kreider  
Department Head, Health and Kinesiology

Subject: 3+2 Proposal: BS-KINE/MS-ATTR

Attached is a proposal for a 3+2 degree program leading to a BS in Kinesiology and an MS in Athletic Training. This proposal has been approved by the Kinesiology faculty, Undergraduate Curriculum Committee and graduate faculty in the Department of Health and Kinesiology.
3+2 Program for the Bachelor of Science in Kinesiology and the Masters of Science in Athletic Training Dual Degree Program

The Department of Health and Kinesiology proposes a new dual degree program that allows undergraduate Kinesiology majors to enter the Master of Science in Athletic Training program at the beginning of their fourth year at Texas A&M University. This provides the opportunity to earn both a Bachelor of Science in Kinesiology and a Master of Science in Athletic Training in five years. Currently the department hosts a two year post-baccalaureate master’s degree that is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). This dual degree program will allow Texas A&M to recruit highly talented high school students interested in athletic training who currently seek admission to accredited undergraduate athletic training programs of which there are 13 within the state and 333 nationally. Because Texas A&M does not host an accredited undergraduate program, we are unable to recruit high school students into an athletic training program. Additionally, future changes to athletic training education nationally will move the entry-level degree in athletic training from a bachelor’s to a master’s degree within the next 7 years. Currently, there are only 4 CAATE accredited master’s programs in Texas and 35 nationally. However, with the required change to the master’s as the entry-level degree, a large percentage of the undergraduate programs will move to become master’s programs. Therefore, there will be greater competition for students as more graduate athletic training programs are developed. Many of those programs will be developed as 3+2 programs which currently comprise less than 30% of athletic training graduate programs. Having two routes to the professional level program will advantageously position our program into the future.

Application and Eligibility:

- Students will follow departmental requirements for admission into the professional phase of the BS in Kinesiology in order to enroll in professional level KINE courses (KINE 426, KINE 433, KINE 482). Once accepted into professional phase, a student’s major will be changed from EDKI to KINE.
- Interested students MUST apply to the MSAT program by February 1 of their junior year at Texas A&M. The MSAT program has a competitive admission process with only 16 seats available each year. However, seats will be reserved for 3+2 applicants that meet all minimum application standards. Any seats remaining will be filled by 4+2 applicants.
- 3+2 applicants must have a minimum undergraduate GPA of 3.25 and maintain this through 24 hours of graduate work at which time a 3.0 must be maintained for retention in the MSAT program.
- 3+2 applicants must receive a B or better in ATTR 201, ATTR 202, ATTR 301, ATTR 302 (new courses to be proposed).
- 3+2 applicants will follow the same MSAT application procedures as 4+2 applicants.

10/2/2015
• Students continuing into the 4\textsuperscript{th} year of the 3+2 program must finish the entire 156 hours to obtain both the Bachelor's and Master's degrees. These students will be conferred with two degrees once they complete the 5\textsuperscript{th} year of the concurrent program.
• Students in the 3+2 program will be required to complete the same two-year, 60 hours curriculum as other students admitted to the MSAT program.
• Students continuing in the 3+2 program will change from U4 to G7 status when they complete 96 hours (end of spring semester, year 3).
• Students will take 96 hours of undergraduate courses, and 60 hours of graduate course work, of which 24 hours will be applied to the undergraduate degree.
• Students not accepted or not allowed to continue with the 3+2 program will complete the remaining requirements for the BS degree in Kinesiology in a concentration that is most suitable to their needs (e.g., Motor Behavior, Applied Exercise Physiology). These students may apply to the traditional (4+2) graduate degree program.

\textbf{3+2 Time Line:}
• Apply to professional phase of KINE program in order to enroll in professional level KINE courses: by October 1 of junior year
• Once accepted into professional phase of KINE, major will be changed from EDKI to KINE allowing enrollment in KINE professional phase courses (KINE 426, 433, 482)
• Apply to MSAT program: by February 1 of junior year
• Change to graduate status (G7) after completion of 96 credits: after spring semester of 3\textsuperscript{rd} year
• Apply for graduate degree plan upon approval of G7 status
• Graduation: both Bachelor's and Master's degrees conferred upon completion of Year 5

\textbf{Degree Requirements: Bachelor of Science in Kinesiology}

\textbf{Major Coursework - 16}

\begin{tabular}{ll}
2 & KINE 121 Physical and Motor Fitness Assessment \\
1 & KINE 120 Health and Fitness \\
1 & KINE 199 Resist Flex \\
1 & KINE 199 Aerobic Mvmt \\
3 & KINE 213 Foundations of Kinesiology \\
4 & KINE 426 Exercise Biomechanics \\
3 & KINE 433 Exercise Physiology \\
1 & KINE 482 Writing Seminar \\
\end{tabular}

\textbf{Support Courses - 15}

\begin{tabular}{ll}
2 & HLTH 216 First Aid \\
3 & HLTH 231 Healthy Lifestyles \\
3 & HLTH 354 Medical Terminology \\
\end{tabular}

10/2/2015
University Core Curriculum and Science Foundation Requirements - 65

ENGLISH AND SPEECH (6)

3 ENGL 104 or ENGL 103
3 ENGL 210 or COMM 203, 205, or 243

MATH (6)

3 MATH 141
3 MATH 131

SCIENCE (32)

4 BIOL 111
4 BIOL 112
4 CHEM 101/111
4 CHEM 102/112
4 PHYS 201
4 PHYS 202
4 BIOL 319#
4 BIOL 320#

# courses must be taken at Texas A&M

1 HISTORY (6)

POLITICAL SCIENCE (6)

3 POLS 206
3 POLS 207

SOCIAL AND BEHAVIORAL SCIENCE (3)

3 PSYC 107

1 CREATIVE ARTS (3)

1 LANGUAGE, PHILOSOPHY AND CULTURE ELECTIVE (3)

10/2/2015
1 Refer to core.tamu.edu. All electives must satisfy University Core Curriculum. Some electives may meet the International and Cultural Diversity requirements.

**Master of Science in Athletic Training courses – 60 credits**

**Required Research Core (7 hours):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 601</td>
<td>Reading Research (Research Methods)</td>
<td>3</td>
</tr>
<tr>
<td>KINE 690S</td>
<td>Theory of Kinesiology (Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>KINE 681</td>
<td>Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Athletic Training Core (53 hours):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTR 660</td>
<td>Prevention and Care of Injuries</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 661</td>
<td>Prevention and Care of Injuries Lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 662</td>
<td>Clinical Examination and Diagnosis-Lower Extremity</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 663</td>
<td>Clinical Examination and Diagnosis-Lower Extremity Lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 664</td>
<td>Clinical Examination and Diagnosis-Upper Extremity</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 665</td>
<td>Clinical Examination and Diagnosis-Upper Extremity Lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 666</td>
<td>Physical Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 667</td>
<td>Physical Rehabilitation Lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 668</td>
<td>Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 669</td>
<td>Therapeutic Modalities Lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 670</td>
<td>General Medical Conditions and Therapeutic Medication</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 671</td>
<td>Organization and Administration in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 672</td>
<td>Professional Preparation and Issues in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 673</td>
<td>Manual Therapy in Athletic Training <em>(new course)</em></td>
<td>2</td>
</tr>
<tr>
<td>ATTR 651</td>
<td>Clinical Education I</td>
<td>2</td>
</tr>
<tr>
<td>ATTR 652</td>
<td>Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 653</td>
<td>Clinical Education III</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 655</td>
<td>Clinical Education V</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 656</td>
<td>Clinical Education VI</td>
<td>3</td>
</tr>
<tr>
<td>KINE 628</td>
<td>Nutrition in Sports and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 629</td>
<td>Physiology of Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 685</td>
<td>Directed Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

2 Courses will be applied to BS-KINE degree

10/2/2015
### Draft Course Rotation Plan:

**Undergraduate Phase**

**Year One**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 111 Intro Bio I</td>
<td>BIOL 112 Intro Bio II</td>
</tr>
<tr>
<td>ENGL 104 Comp/Rhetoric</td>
<td>ENGL/COMM</td>
</tr>
<tr>
<td>MATH 141 Business Math I</td>
<td>MATH 131 Calculus</td>
</tr>
<tr>
<td>HIST 105 US History</td>
<td>HIST 106 US History</td>
</tr>
<tr>
<td>KINE 121 Phys Mot Fit Assess</td>
<td>KINE 213 Found of KINE</td>
</tr>
<tr>
<td>KINE 199 Majors Resist Flex</td>
<td>KINE 120 Hlth and Fitness</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

*May elect to take PHYS or CHEM to reduce Fall load*

**Summer Session I**

**Summer Session II**

*May elect to take PHYS or CHEM to reduce Fall load*

**Undergraduate Phase**

**Year Two**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201 College Physics</td>
<td>PHYS 202 College Physics</td>
</tr>
<tr>
<td>CHEM 101/111</td>
<td>CHEM 102/112</td>
</tr>
<tr>
<td>PSYC 107 Intro to Psych</td>
<td>Lang, Cult, Phil</td>
</tr>
<tr>
<td>Creative Arts</td>
<td>HLTH 231 Healthy Lifestyles</td>
</tr>
<tr>
<td>HLTH 216 First Aid</td>
<td>KINE 199 Maj Aerobic Mvmt</td>
</tr>
<tr>
<td>ATTR 201 Field Exp Ath Tr I*</td>
<td>ATTR 202 Field Exp Ath Tr II*</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

**Summer Session I**

**Summer Session II**

**Undergraduate Phase**

**Year Three**

*Students apply to professional phase by February 1.*

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 320 A&amp;P II</td>
<td>POLS 207 State Local Gov</td>
</tr>
<tr>
<td>POLS 206 Am Nat Gov</td>
<td>KINE 426 Ex Biomech</td>
</tr>
<tr>
<td>HLTH 354 Med Term</td>
<td>KINE 433 Ex Phys</td>
</tr>
<tr>
<td>NUTR 202 Fund Nutr</td>
<td>KINE 482+Writing Seminar</td>
</tr>
<tr>
<td>ATTR 301 Field Exp Ath Tr I*</td>
<td>ATTR 302 Field Exp Ath Tr II*</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>14</td>
<td>12</td>
</tr>
</tbody>
</table>

**Graduate Phase**

**Year Four**

**Summer I**

**Summer II**

2ATTR 660 Prev and Care 3
2ATTR 661 Prev and Care Lab 1
2ATTR 651 Clin Edu I 2

**Fall**

2ATTR 652 Clin Educ II 3

**Spring**

2ATTR 653 Clin Educ III 3

10/2/2015
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTR 662 Clin Exam LE</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 663 Clin Exam LE lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 668 Ther Mod</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 669 Ther Mod lab</td>
<td>1</td>
</tr>
<tr>
<td>KINE 601 Reading Research</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 671 Org and Admin</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 664 Clin Exam UE</td>
<td>3</td>
</tr>
<tr>
<td>ATTR 665 Clin Exam UE lab</td>
<td>1</td>
</tr>
<tr>
<td>ATTR 665 Seminar</td>
<td>1</td>
</tr>
<tr>
<td>KINE 681 Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Graduate Phase**

**Year Five**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer I</td>
<td>KINE 628 Sports Nutr</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 690 Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Fall</td>
<td>ATTR 655 Clin Educ V</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ATTR 666 Phys Rehab</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ATTR 667 Phys Rehab lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ATTR 670 Gen Med</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ATTR 673 Man Ther Athl Tr*</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>KINE 685 Directed Studies</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>Summer II</td>
<td>ATTR 656 Clin Educ VI</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ATTR 672 Prof Prep</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 629 Phys of S&amp;C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 685 Directed Studies</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**Notes:** Students will be encouraged to take any of the 4 credit science courses during the Summer Sessions, including BIOL 319/320 to diminish the heavy semester loads during Years 2 and 3. *Newly proposed courses

²Courses will be applied to BS-KINE degree
SPECIAL CONSIDERATION

Dwight Look College of Engineering
Certificate in Engineering Project Management
Request to Discontinue Certificate
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: ☐ Degree Program ☐ Minor ☑ Certificate

3. Request submitted by (Department or Program Name):
   Dwight Look College of Engineering

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   Engineering Project Management Certificate

5. Brief description of change:
   Remove the Engineering Project Management Certificate from the 2016-17 Undergraduate Catalog

6. Rationale for change:
   The Engineering Project Management Certificate will be replaced by the Minor in Engineering Project Management

---

Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached. ☐ Yes ☑ No
    b. Current catalog curriculum with handwritten edis attached. ☑ Yes ☐ No
    c. Current Howdy degree evaluation with handwritten edis attached. ☐ Yes ☑ No
       Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No
    b. If yes, degree program hours will change from: ________ to: ________
    c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐ Yes ☑ No
       http://www.fhecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached? ☐ Yes ☑ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

[Signature]
Department Head or Program Chair (Type Name & Sign) Date

[Signature]
Dean of College Date

[Signature]
Chair, College Review Committee Date

[Signature]
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14
Engineering Project Management - Certificate

The Engineering Project Management Certificate program is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this program will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The certificate program consists of (4) three-hour courses for a total of 12 credit hours. Two of the courses are technical electives, which can count toward the student's BS degree depending on the student's department. The certificate will be awarded upon completion of the BS degree in the Dwight Look College of Engineering.

For additional information, contact the Engineering Project Management Certificate coordinator or Engineering Academic and Student Affairs, Engineering Activities Building B, (979) 845-7200.

Program Requirements

Required Courses
CVEN 333/ISEN 333/MEEN 333  Project Management for Engineers (or department equivalent) 3
or CVEN 349 or Civil Engineering Project Management
MGMT 309  Survey of Management 3
or MGMT 363 or Managing People in Organizations

Technical Electives
Select one or two of the following: 3-6
CVEN 405  Construction Management of Field Operations
CVEN 473  Engineering Project Estimating and Planning
CSCE 431  Software Engineering
ISEN 303  Engineering Economic Analysis
ISEN 411  Engineering Management Techniques
ISEN 488  Special Topics In...

Business Electives
Select one of the following if only one Technical Elective was selected: 3
MGMT 372  Advanced Concepts in Organizational Behavior
MGMT 373  Managing Human Resources
MGMT 424  Organizational Design, Change and Development
MGMT 452/BUS 452 International Management
MGMT 480  Managing Projects
MGMT 470  Entrepreneurial Small Business

Total Semester Credit Hours 12
SPECIAL CONSIDERATION

DWIGHT LOOK COLLEGE OF ENGINEERING
MINOR IN ENGINEERING PROJECT MANAGEMENT
REQUEST FOR A NEW MINOR
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Engineering Project Management

Department: Dwight Look College of Engineering

College: Dwight Look College of Engineering

Will grant a minor ☑ Yes ☐ No  Academic Year: 2016-2017

A selection from among the following courses will constitute a minor field of study.

A. The following 4 hours of course work are required.
   ENGR 333 - Project Management for Engineers
   ENGR 380 - Seminar Series in Engineering Project Management

B. Select 12 hours from the following courses.
   See Appendix A for course listings

Please indicate further requirements such as grade point requirement, prerequisites, resident (if above the minimum 6 hours at the 300- to 400-level), capstone or methods courses.

Minimum of 16 hours required.

Minimum of 6 hours at 300- to 400-level

(1) Minimum required GPA to declare minor is 2.5, (2) Obtain a "C" or better in each course taken towards minor, (3) Achieve an overall GPA of 2.5 in approved minor coursework, and

(3) ENGR 333 must be taken junior year.

Reviewed and approved by:

[Signatures and dates for Department Head/Program Director, AOC Dean of College]
Appendix A – Engineering Project Management Minor

To earn a minor in Engineering Project Management, a student must complete a total of 16 credit hours that includes the prerequisite introductory project management courses (ENGR 333 – Engineering Project Management (3 hours) and ENGR 380 – Seminar Series in Engineering Project Management (1 hour)) as well as 12 credit hours in courses selected from the following 4 categories:

1. Courses providing background in business management and leadership. The courses listed under this category provide required skills to understand the key management principles and provide leadership in project planning and execution;
2. Courses providing background in project economics, analysis, and decisions. The courses listed under this category provide advanced understanding of the analytical tools required to support project planning and execution.
3. Courses providing the application of project management tools within the major. The courses listed under this category provide examples of the application project management principles within the students’ area of study.
4. Courses providing project experiences as directed studies. The courses listed under this category provide practical experience in managing projects via internships, campus or community-based engagements, or research. Students should be able to received credits via ENGR485 for documenting their project experience.

Table A1 shows the course requirements for each of the listed categories. However, this list is to be re-evaluated periodically to include newly developed courses relevant to engineering project management.
<table>
<thead>
<tr>
<th>Courses providing background in business management and leadership (must take minimum 2 credit hours; maximum of 4 credit hours will count towards the minor)</th>
<th>Courses providing background in project economics, analysis, and decisions (must take minimum 2 credit hours; maximum 6 credit hours will count towards the minor)</th>
<th>Course providing the application of project management tools within the major (must take minimum 3 credit hours; maximum of 6 credit hours will count towards the minor)</th>
<th>Course providing project experiences as directed studies (maximum of 3 credit hours will count toward the minor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR333 Project Management for Engineers (3)</td>
<td>MGMT309 Survey of Management (3)</td>
<td>ISEN302/303 Economic Analysis of Engineering Projects/Engineering Economic Analysis (2/3)</td>
<td>ISEN411 Engineering Management Techniques (3)</td>
</tr>
<tr>
<td>ENGR380 Seminar in Project Management (1)</td>
<td>SOMS380 Workshop in Leadership Education (1)</td>
<td>CVEN322 Civil Engineering Systems (3)</td>
<td>CVEN405 Construction Management of Field Operations (3)</td>
</tr>
<tr>
<td></td>
<td>SOMS381 Workshop in Leadership Education II (1)</td>
<td>PETE353 Petroleum Project Evaluation (3)</td>
<td>CVEN473 Engineering Project Estimating and Planning (3)</td>
</tr>
<tr>
<td></td>
<td>SOMS481 Seminar in Executive Leadership (1)</td>
<td>CHEN/SENG430 Risk Analysis in Safety Engineering (3)</td>
<td>CVEN349 Civil Engineering Project Management (3)</td>
</tr>
<tr>
<td></td>
<td>SOMS482 Seminar in Executive Leadership II (1)</td>
<td></td>
<td>ISEN430 Human Factors and Ergonomics (3)</td>
</tr>
<tr>
<td>ESET 151 Engineering Leadership (3)</td>
<td>CSCE431 Software Engineering (3)</td>
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<tr>
<td>ENGR 289 Introduction to Engineering Leadership (2-2)</td>
<td>CSCE315 Programming Studio (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 489A Leadership and Business Fundamentals (2-2)</td>
<td>SENG312 Systems Safety Engineering (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 489B Role of Engineering and Business in Society (2-2)</td>
<td>CHEN/SENG460 Quantitative Risk Analysis in Safety Engineering (3)</td>
<td></td>
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</tr>
<tr>
<td>ENGR 489A Exploring Your Leadership Qualities and Perspective (2-2)</td>
<td>ESET 329 Six Sigma and Applied Statistics (4)</td>
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<tr>
<td>ENGR 489B Leadership Capstone (2-2)</td>
<td>ESET 419 Engineering Technology Capstone I (3)</td>
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<td></td>
<td>BMEN469 Entrepreneurship in BMEN (3)</td>
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<td></td>
<td>MEEN489 Entrepreneurship related to Nanomaterials Application in Energy (3)</td>
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<td></td>
</tr>
</tbody>
</table>

Note: Highlighted in red are the courses that are not on the Catalog.

Table A2 presents an example of course the students from different department can take to satisfy the Engineering Project Management minor degree requirements.
<table>
<thead>
<tr>
<th>Example</th>
<th>Courses providing background in business management and leadership (must take minimum 2 credit hours; maximum of 4 credit hours will count towards the minor)</th>
<th>Courses providing background in project economics, analysis, and decisions (must take minimum 2 credit hours; maximum 6 credit hours will count towards the minor)</th>
<th>Course providing the application of project management tools within the major (must take minimum 3 credit hours; maximum of 6 credit hours will count towards the minor)</th>
<th>Course providing project experiences as directed studies (maximum of 3 credit hours will count toward the minor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEEN student</td>
<td>ENGR333 and ENGR380 4 credit hours</td>
<td>MGMT309 3 credit hours</td>
<td>ISEN302 and CHEN/SENG430 5 credit hours</td>
<td>MEEN489 3 credit hour</td>
</tr>
<tr>
<td>ISEN student</td>
<td>ENGR333 and ENGR380 4 credit hours</td>
<td>MGMT309 3 credit hours</td>
<td>ISEN303 3 credit hours</td>
<td>ISEN411 and ISEN430 6 credit hours</td>
</tr>
<tr>
<td>CVEN student</td>
<td>ENGR333 and ENGR380 4 credit hours</td>
<td>SOMS380 and SOMS381 2 credit hours</td>
<td>CVEN322 3 credit hours</td>
<td>CVEN405 and CVEN473 6 credit hours</td>
</tr>
<tr>
<td>CSCE student</td>
<td>ENGR333 and ENGR380 4 credit hours</td>
<td>ENTC151 3 credit hours</td>
<td>ISEN302 2 credit hours</td>
<td>CSCE431 and CSCE315 6 credit hours</td>
</tr>
</tbody>
</table>
September 10, 2015

MEMORANDUM

TO: Dr. Anthony Giuseppi-Elie
Department of Biomedical Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Department of Biomedical Engineering to include the following course in the selection of minor coursework as outlined in the attached document:

- BMEN 469 – Entrepreneurial Issues in Biomedical Engineering

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
September 10, 2015

MEMORANDUM

TO: Dr. M. Nazmul Karim
Artie McFerrin Department of Chemical Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations, and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Artie McFerrin Department of Chemical Engineering to include the following course in the selection of minor coursework as outlined in the attached document:

- CHEN/SENG 430 – Risk Analysis in Safety Engineering
- CHEN/SENG 460 – Quantitative Risk Analysis
- SENG 312 – Systems Safety Engineering

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
September 10, 2015

MEMORANDUM

TO: Dr. Robin Autenrieth, Head
    Zachry Department of Civil Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
          Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
      Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Zachry Department of Civil Engineering to include the following courses in the selection of minor coursework as outlined in the attached document:

- CVEN 322 – Civil Engineering Systems
- CVEN 349 – Civil Engineering Project Management
- CVEN 405 – Construction Management of Field Operations
- CVEN 473 – Engineering Project Estimation and Planning

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
MEMORANDUM

TO: Dr. Dilma Da Silva, Head
Department of Computer Science and Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Department of Computer Science and Engineering to include the following courses in the selection of minor coursework as outlined in the attached document:

- CSCE 431 – Software Engineering
- CSCE 315 – Programming Studio (3)

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
September 10, 2015

MEMORANDUM

TO: Dr. Reza Langari, Head of Engineering Technology and Industrial Distribution

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
         Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
       Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Department of Engineering Technology and Industrial Distribution to include the following courses in the selection of minor coursework as outlined in the attached document:

- ESET 151 – Engineering Leadership
- ESET 329 – Six Sigma and Applied Statistics
- ESET 419 – Engineering Technology Capstone I

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
September 10, 2015

MEMORANDUM

TO: Dr. Cesar Malave, Head
Department of Industrial and Systems Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Department of Industrial and Systems Engineering to include the following courses in the selection of minor coursework as outlined in the attached document:

- ISEN 302 – Economic Analysis of Engineering Projects
- ISEN 303 – Engineering Economic Analysis
- ISEN 411 – Engineering Management Techniques
- ISEN 430 – Human Factors and Ergonomics

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
MEMORANDUM

TO: Dr. Wendy R. Boswell, Head  
Department of Management, Mays Business School

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs  
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator  
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Department of Management in the Mays Business School to include the following course in the selection of minor coursework as outlined in the attached document:

- MGMT 309 – Survey of Management

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
MEMORANDUM

TO: Dr. A. Daniel Hill  
Harold Vance Department of Petroleum Engineering

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs  
Dwight Look College of Engineering

FROM: Dr. Ivan Damnjanovic, Associate Professor and Coordinator  
Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the Harold Vance Department of Petroleum Engineering to include the following course in the selection of minor coursework as outlined in the attached document:

- PETE 353 – Petroleum Project Evaluation

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
MEMORANDUM

TO:    Dr. Richard Cummins, Director
       Hollingsworth Leadership Program
       Texas A&M University Corps of Cadets, School of Military Science

THROUGH: Dr. Valerie Taylor, Senior Associate Dean for Academic Affairs
         Dwight Look College of Engineering

FROM:  Dr. Ivan Damnjanovic, Associate Professor and Coordinator
        Engineering Project Management

SUBJECT: New Minor in Engineering Project Management

The Engineering Project Management minor is intended to help meet the requirements of industry by educating undergraduate engineering students to understand complex engineering projects, project organizations and project management methods. Students completing this minor will be able to work effectively in multidisciplinary engineering projects immediately after completion and to advance more rapidly within the project management organization and profession. The management of projects entails technical knowledge, engineering skills and management skills.

The Dwight Look College of Engineering requests support from the School of Military Science to include the following courses in the selection of minor coursework as outlined in the attached document:

- SOMS 380 – Workshop in Leadership Education
- SOMS 381 – Workshop in Leadership Education II
- SOMS 481 – Seminar in Executive Leadership
- SOMS 482 – Seminar in Executive Leadership II

Thank you for your willingness to support this new minor in the Dwight Look College of Engineering.
SPECIAL CONSIDERATION

COLLEGE OF LIBERAL ARTS
UNIVERSITY STUDIES DEGREE
AREA OF CONCENTRATION - RELIGIOUS THOUGHT, PRACTICES AND CULTURES
REQUEST FOR A NEW PROGRAM
Proposal for B.A. Degree in University Studies

Name of Area of Concentration: Religious Thought, Practices, and Cultures

Department: Interdisciplinary Program in Religious Studies

College: Liberal Arts

Office responsible for advising students in this Area of Concentration:
  a. Office Name/Location: CLLA Interdisciplinary Programs, 314 Bolton
  b. Telephone Number: 979-458-9283 or 979-845-7994
  c. Email: dox@tamu.edu

1. Statement that:

A) describes the area of concentration and distinguishes it from existing majors

The College of Liberal Arts offers an 18-credit interdisciplinary minor in Religious Studies. Most courses are offered by departments and cross-listed with the minor program. There is no major in Religion at Texas A&M.

Religion is a powerful force in the modern world, and a critical aspect of cultural diversity. The proposed University Studies concentration in Religious Thought, Practices, and Culture gives TAMU students a knowledge base for analyzing how religious beliefs and practices work in a global context. Students will develop the mental flexibility to see the world from multiple points of view. Students will also learn to recognize how religion shapes social organizations, political actions, and individual behavior.

B) explains how this area of concentration would serve at least one of the two main groups of students cited above

(a) The study of religion requires critical distance, analytical skills, and the mental flexibility to see the world from multiple points of view. Students with these attributes who are motivated by a desire to know how people of different religions approach the world are not served by any single major at TAMU are likely to be among the best thinkers and observers (well above the 2.0 threshold).
(b) People’s religious beliefs and practices influence virtually every aspect of daily social life, from diet and dress to ethics to political commitments. A concentration in Religious Thought, Culture, and Practices sits at the intersection of multiple disciplines. Any minor, in or outside the College of Liberal Arts, is thus likely to contribute to a concentration in religion. For example: a minor in biology offers a research path into the neuroscience of religious experience; a minor in psychology contributes a secular view of how religious belief affects people’s behavior; a minor in anthropology shows the ways religion shapes cultural identity; a minor in history applies methods to...
analyzing how religious traditions evolve and change; a minor in mathematics could allow students to model changes in the global distribution of religious traditions; a minor in political science provides methods for analyzing the interplay between religion and politics.

C) indicates how this area of concentration would promote the purposes of the university studies degree as described above. In the case of a College submission, please indicate support from the faculty.

As Director of the Interdisciplinary Minor in Religious Studies, I interview all prospective minors, focusing on their goals and interests. Since 2009, there has been a distinct trend toward studying religion in conjunction with biology/medicine, business (global), non-profit work, nutrition science, and psychology. Students invariably talk about wanting a better grasp of how religious diversity shapes the modern world. About 10% of Religious Studies minors would like to major in religion, though the College of Liberal Arts is not likely to develop such a major. A University Studies concentration is the ideal curricular model for allowing students to focus on the complexities of religious thought and practice in the modern world while supporting that focus with minors than enhance their knowledge base and lead toward careers.

Reviewed and approved by:

Department Head/Program Director  Date

College Undergraduate Curriculum Committee Date
or UCC representative

AOC Dean of College  Date

For Interdisciplinary Degrees Only:

Department Head/Program Director  Date

College Undergraduate Curriculum Committee Date
or UCC representative

AOC Dean of College  Date
Core Concentration Courses

1. Required courses 6 hours

RELS 480W Religious Communication
RELS 491W Research

2. Choose 15 hours from the following courses:

ARCH 438 History and Design of Sacred Architecture
PHIL 411 Medieval Philosophy
RELS 211 Hebrew Scriptures
RELS 213 New Testament
RELS 220 History of Christianity: Origins to Reformation
RELS 221 History of Islam
RELS 302 Woman and Religion
RELS 303 Near Eastern Religions
RELS 304 Indian and Oriental Religions
RELS 312 Contemplation in the Modern World
RELS 317 Introduction to Biblical Archaeology
RELS 321 Islam, Politics, and Jihad
RELS 326 Sociology of Religion
RELS 331 Philosophy of Religion
RELS 340 Folklore and the Supernatural
RELS 347 Rise of Islam
RELS 351 Classical Mythology
RELS 364 Diversity Lessons from Medieval Spain
RELS 365 History of Religion in America to 1860
RELS 360 The Bible as Literature
RELS 366 History of Religion in America after 1860
RELS 371 Hispanic Religions
RELS 392 Studies in Literature, Religion, and Culture
RELS 403 Anthropology of Religion
RELS 418 European Intellectual History from Ancient Greece to the Middle Ages
RELS 419 European Intellectual History from the High Ages to the 17th Century
RELS 436 Ancient Egypt
Degree Evaluation
University Studies in Religious Thought, Practices, and Culture

**Concentration Field of Study:** 21 hrs
- Required courses 6 hrs
  - Take RELS 480 and RELS 491
- Concentration electives 15 hrs

**Communication:** 12 hrs
- ENGL 104 3 hrs
  - Must have a grade of 'C' or better.
- Communication Rqmt 3 hrs
- Select 3 hours from any course with the Communication attribute [KCOM]
- Literature Rqmt 6hrs

**Mathematics:** 6 hrs
- Mathematics Rqmt 6hrs
  - Select any course with the [KMTH] attribute

**Life and Physical Sciences:** 9hrs
- Life/Physical Sciences 9hrs
  - Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS]

**Language, Philosophy, Culture and Creative Arts:** 6 hrs
- Lang, Phil, Culture Rqmt 3hrs
  - Select any course with the Language, Philosophy and Culture attribute [KLPC]
- Creative Arts 3hrs
  - Select any course with the Creative Arts attribute [KCRA]
Foreign Language: 14 hrs

A. Arabic 14hrs
   8 hours. Take ARAB 101 and 102.
   6 hours. Take ARAB 201 and 202.

OR

B. Chinese 14hrs
   8 hours. Take CHIN 101 and 102
   6 hours. Take CHIN 201 and 202.

OR

C. French 14hrs
   8 hours. Take FREN 101 and 102.
   3 hours. Select from FREN 201 or 221.
   3 hours. Select from FREN 202 or 222.

OR

D. German 14hrs
   8 hours. Take GERM 101 and 102.
   3 hours. Select from GERM 201 or 221.
   3 hours. Select from GERM 202 or 222.

OR

E. Greek 14hrs
   8 hours. Take CLAS 101 and 102.
   3 hours. Take CLAS 211.
   3 hours. Select from CLAS 311 or 312.

OR

F. Italian 14hrs
   8 hours. Take ITAL 101 and 102.
   6 hours. Take ITAL 201 and 202.

OR

G. Japanese 14hrs
   8 hours. Take JAPN 101 and 102.
   6 hours. Take JAPN 201 and 202.

OR

H. Latin 14hrs
   8 hours. Take CLAS 121 and 122.
   6 hours. Take CLAS 221 and 222.

OR

I. Russian 14hrs
   8 hours. Take RUSS 101 and 102.
   6 hours. Select from RUSS 201, 202, 221, 222.

OR

J. Spanish 14hrs
   4 hours. Take SPAN 101.
   4 hours. Select from SPAN 102 or 140.
3 hours. Select from SPAN 201 or 221.
3 hours. Select from SPAN 202, 203 or 222.

Social and Behavioral Science: 6hrs
A. Social Science Rqmt 3hrs
   Select any course with the Social and Behavioral Science attribute [KSOC]
AND
B. Social Science 3hrs
   Select any course with a [KSOC] attribute.

Citizenship: 12 hrs
A. American History Rqmt 6hrs
   Select from any course with the [KHIS] attribute.
AND
B. Political Science Rqmt 6hrs
   Take POLS 206 and POLS 207.

General Electives: 34 hrs
A. General Electives 37 hrs
   Includes 30-36 hours of courses that were used to satisfy the two minor
   requirements and 1-7 hours of 100-499 courses not used elsewhere

Work Not Applied:
A. Courses not applied

University Writing Req.:    
A. Writing Requirement
   Two RELS 100-499 courses with the Writing attribute [UWRT] required

Int’l & Cult Diversity:
A. International and Cultural Diversity 6 hrs
   Select from courses with the International and Cultural Diversity attribute [UICD]

University Studies Minor Rqmt:
A. Required Minor
   Two university approved minors are required for this degree program. This area
   ensures completion of minors and will be removed once an application for
   degree has been submitted.
Residence Requirement:
A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.
   A. Residence - Major 12hrs
       Includes RELS 300-499
   AND  B. Residence – 300-499 24hrs

GPR-Major:
A GPR of 2.00 must be maintained in all major field courses.
   A. Major GPR 21+hrs
       Includes RELS 200-499
Oberhelman, Steven M

From: Holliday Shelley D
Sent: Thursday, October 08, 2015 3:30 PM
To: Dox Donnalee
Cc: Geva, Anat M; Oberhelman, Steven M
Subject: RE: ARCH 438

Donnalee—

Yes, we would definitely be amenable to having ARCH 438 listed as an elective in your University Studies concentration in Religious Beliefs, Practices, and Culture. It is always great to collaborate. We were a bit surprised when we did not see it listed under the minor.

Thank you,

Shelley
Shelley D. Holliday
Associate Department Head for Undergraduate Studies, Architecture
Langford ARCA 418
Department of Architecture
Texas A&M University
College Station, Texas 77843-3137
979.845.7885
sholliday@tamu.edu

---

From: Dox Donnalee
Sent: Wednesday, October 07, 2015 1:23 PM
To: Holliday Shelley D
Cc: Geva, Anat M; Oberhelman, Steven M
Subject: ARCH 438

Dear Shelley,

The College of Liberal Arts is requesting a University Studies concentration in Religious Beliefs, Practices, and Culture. Would you be amenable to allowing us to list ARCH 438 as an elective in the concentration?

Donnalee

---

From: Rogers, Julie [mailto:jrogers@arch.tamu.edu]
Sent: Tuesday, December 3, 2013 12:26 PM
To: Geva, Anat; Annette Jackson
Cc: Dox, Donnalee; Klein, Nancy L
Subject: RE: cross listing ARCH 438

All,
Anat is correct. The Department of Architecture Academic Affairs committee expressed concerns over cross-listing this course. Of course we would fully support the ARCH 438 course being available to students as an elective on the Religious Studies minor.
SPECIAL CONSIDERATION

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PHILOSOPHY AND HUMANITIES
UNIVERSITY STUDIES DEGREE
AREA OF CONCENTRATION - SOCIETY, ETHICS AND LAW
REQUEST FOR A NEW PROGRAM
Texas A&M University
University Studies Degree
Proposed Area of Concentration

Name of Area of Concentration: Society, Ethics, and Law (S.E.A.L.)

Department: Philosophy and Humanities

College: Liberal Arts

Office responsible for advising students in this Area of Concentration:

a. Office Name/Location: Philosophy Undergraduate Advising, YMCA 318 / ANTH 228

b. Telephone Number: (979) 845 9333

c. Email: mlvaladez@tamu.edu

The University Studies degree is an innovative interdisciplinary degree with an area of concentration and two minors, at least one of which is in a different college from that of the area of concentration. The degree serves two main groups of students: first, students who are in good academic standing (GPA of 2.0 or above) but who are unable to find or gain access to a major of interest and (b) students who specifically seek a broad interdisciplinary combination of coursework that is unavailable through existing degree programs.

The educational objective of the University Studies Degree is to provide students with an interdisciplinary academic degree that will prepare them for a successful life and career or for graduate school.

Please append two items to this sheet:

1. A statement that: A) describes the area of concentration and distinguishes it from existing majors, B) explains how this area of concentration would serve at least one of the two main groups of students cited above, and C) indicates how this area of concentration would promote the purposes of the university studies degree as described above. In the case of a College submission, please indicate support from the faculty.

2. The enclosed form for listing courses that will be used in the area of concentration that will be required as prerequisites, and will be used for university core curriculum requirements.

Reviewed and approved by:

For Interdisciplinary Degrees Only:

Department Head/Program Director Date

College Undergraduate Curriculum Committee or UCC representative Date

AOC Dean of College Date

RECEIVED
CURRICULAR SERVICES

OCT 23 2015
COURSE FORM

There needs to be a minimum of 6 hours at 400-level and 36 hours of 300-400 level coursework in residence at Texas A&M University.

A. Select 21-24 hours from among the following courses for the area of concentration. If there will be more than 24 hours in the area of concentration please include a justification. Two approved writing courses will be required for the University Studies degree. The courses may be in the area of concentration or the minors. Please indicate writing courses in the area of concentration, if any, with a W following the course number (TAMU 400 W). If courses required for the area of concentration include a course or courses from outside the department of the area of concentration, please include a letter of support from the department(s) offering the course(s). Courses listed as part of the University Core Curriculum do not need a letter of support.

1. The following ______ hours of coursework are required:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEE ATTACHED TABLES</td>
<td></td>
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</tr>
</tbody>
</table>

2. Select ______ hours from the following courses:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEE ATTACHED TABLES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* If the Area of Concentration requires students to select courses from a list of pre-selected combinations, please duplicate this table; e.g. two course from column A, two courses from column B

3. Prerequisite courses not included in the University Core Curriculum or listed above:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEE ATTACHED TABLES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
B. Student will select two minors (30-36 hours). One must be from outside the college offering the area of concentration.

C. Free electives (17-26 hours). If there will be fewer than 17 hours of free electives please include a justification in the preceding 2-3 page statement.

D. Specify courses in the University Core Curriculum\(^1,\,2,\,3\) that will be required for this area of concentration (43 hours). Please maintain as much flexibility as possible.

<table>
<thead>
<tr>
<th>Course Prefix &amp; No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td></td>
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<tr>
<td>English 104</td>
<td>ENGL 104</td>
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<td>Mathematics</td>
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<td>Natural Sciences</td>
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<td>Humanities</td>
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<tr>
<td>Visual &amp; Performing Arts</td>
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<tr>
<td>Social &amp; Behavioral Sciences</td>
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<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td>POLS 206 &amp; 207</td>
<td></td>
</tr>
<tr>
<td>International &amp; Cultural Diversity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinesiology</td>
<td>KINE 198 &amp; 199</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:  
\(^1\) To be selected from the University Core Curriculum.

\(^2\) There is a graduation requirement which includes 6 hours of international and cultural diversity courses. Refer to the International and Cultural Diversity table for a list of acceptable courses. A course satisfying a University Core category, a college/department requirement, or as a free elective may be used to satisfy this requirement.

\(^3\) Completion in high school of two units of the same foreign language or one year of college work is required for graduation.
Comments/questions:

29. PERF271. Culture Topics: Performance Studies
   The paperwork and the syllabus have everything necessary, but it’s difficult to tell what the course is about. Is this meant to be a general course under which specific instructors could teach different cultural topics (e.g., African performance in the 1900s, Japan and China in the 1700s)?

   Also, why would a 200-level course be allowed to be repeated NINE times (27 credits) when students need upper-level courses to complete the major?

   Are the learning outcomes really OUTCOMES or are they what students are doing in class?

30. PERF272. Technique Topics: Performance Studies
   The paperwork and the syllabus have everything necessary, but it’s difficult to tell what the course is about. Is this meant to be a general course under which specific instructors could teach different technique topics?
   **Also, PERF 271 and 272 are so similar that it’s hard to know why there are two different courses. Only differences are a few words in the course description and a learning objective or two. As an outsider looking in, I don’t know what to think here.
   **Also, as above, why would a 200-level course be allowed to be repeated NINE times (27 credits) when students need upper-level courses to complete the major?

   Are the learning outcomes really OUTCOMES or are they what students are doing in class?

31. PERF273. Culture and Technique Topics: Performance Studies
   Same notes as previous two.

32. PERF 411. Advanced Culture Topics: Arts and Culture in Performance Studies
   Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

33. PERF 412. Advanced Technique Topics: Arts and Culture in Performance Studies
   Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

34. PERF 413. Advanced Culture and Technique Topics: Arts and Culture in Performance Studies
   Same concerns—not differentiated from other classes, learning outcomes are not outcomes.
35. PERF 421. Advanced Culture Topics: Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

36. PERF 422. Advanced Technique Topics: Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

37. PERF 423. Advanced Culture and Technique Topics: Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

38. PERF 431. Advanced Culture Topics: Arts, Culture and Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

39. PERF 432. Advanced Technique Topics: Arts, Culture and Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

40. PERF 433. Advanced Culture and Technique Topics: Arts, Culture and Composition/Devised Performance
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

41. PERF 441. Advanced Culture Topics: Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

42. PERF 442. Advanced Technique Topics: Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

43. PERF 443. Advanced Culture and Technique Topics: Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

44. PERF 451. Advanced Culture Topics: Arts, Culture, Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

45. PERF 452. Advanced Technique Topics: Arts, Culture, Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.
46. PERF 453. Advanced Culture and Technique Topics: Arts, Culture, Design and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

47. PERF 461. Advanced Culture Topics: Composition/Devised Performance, Design, and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

48. PERF 462. Advanced Technique Topics: Composition/Devised Performance, Design, and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

49. PERF 463. Advanced Culture and Technique Topics: Composition/Devised Performance, Design, and Technology
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

50. PERF471. Advanced Culture Topics: Performance Studies
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

51. PERF472. Advanced Technique Topics: Performance Studies
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

52. PERF473. Advanced Culture and Technique Topics: Performance Studies
Same concerns—not differentiated from other classes, learning outcomes are not outcomes.

53. POLS 233. Politics and Policy in the United States

10b—should it also be a general elective for all majors?

Syllabus does not list the semester taught.

54. SOCI 208. Introduction to Aging and Society
10b—if it’s an elective in the minor, does it have to be listed? Or is that covered by general academics?

55. SOCI 308. Community Issues in Aging
10b—if it’s an elective in the minor, does it have to be listed? Or is that covered by general academics?

Syllabus—last page—should be “service learning portfolio due” and not “research proposal due”

Query: do individually organized service learning activities require approval from instructor or other arrangements? Also, can a student “double dip” their service learning?
56. SOCI 324. Social Change
10b—if it’s an elective in the minor, does the minor have to be listed? Or is that covered by general academics?

57. SOCI 338. Latino Immigration
10b—if the course is an elective in the minor, does the minor have to be listed? Or is that covered by general academics?

No semester listed on syllabus

In the syllabus, there are some unstated deadlines listed as [date]. Will this be a problem?

Also, there might be some inconsistency in # of assignments. On first page under “requirements and expectations,” it says there are two assignments, but on the second page there appears to be only one (but with two parts). Just wasn’t sure here.

58. SOCI 408. Death and Dying
10b—if the course is an elective in the minor, does the minor have to be listed? Or is that covered by general academics?
Please see attached.

Thank you!

Joe

--
Joseph Daniel Ura  
Associate Professor  
Department of Political Science  
Texas A&M University  
4348 TAMU  
College Station, TX 77843-4348  
(Office) 979.845.2327  (Fax) 979.847.8924  
jura@tamu.edu  
http://people.tamu.edu/~jura/
University Studies – BA, Society, Ethics and Law
Housed in the Department of Philosophy, TAMU

Society, Ethics, and Law (S.E.A.L.) is a university degree that has been designed for students who are interested in pursuing law school, or developing a highly transferable skill set that is useful to non-profits and businesses alike. To this end, S.E.A.L.’s curriculum is primarily guided by the published recommendations of the American Bar Association (A.B.A.). While the A.B.A. does not recommend nor require any particular major, it does encourage prospective law students to i) pursue opportunities (courses and experiences) that cultivate a specific set of skills; ii) obtain experiences that “can help [them] hit the ground running when [they] become a lawyer;”1 and iii) develop “a broad understanding of history, including the various factors (social, political, economic, and cultural) that have influenced the development of our society in the United State.”*

The requirements for this University Studies degree reflect the A.B.A.’s recommendation. Under the broad themes of Society, Ethics and Law, the degree requires classes that contribute to a broad understanding of philosophy, politics, economics and history. Specifically, S.E.A.L. requires that students complete 24 hours of major requirements, a minor in Philosophy, and a second minor outside of the Liberal Arts. In addition to obtaining a broad understanding of society, ethics and law, the degree requires that students pursue experiences and opportunities that typically cultivate the A.B.A.’s recommended skill set:

1. **Problem Solving** involves “courses and other experiences that will engage [students] in critical thinking about important issues, challenge ... beliefs and improve ... tolerance for uncertainty and criticism.” *
2. **Critical Reading** involves “close reading and critical analysis of complex textual material.” *
3. **Writing and Editing** involves “preparing original pieces of substantial length and revising written work in response to constructive criticism. [...] Language is the most important tool of a lawyer, and lawyers must learn how to express themselves clearly and concisely.” *
4. **Oral Communication and Listening** involves “the ability to speak clearly and persuasively... and excellent listening skills.” *
5. **Research** involves “undertaking a project that requires significant library research and the analysis of large amounts of information obtained from that research.” *

The study of philosophy lends itself to the development of the five recommended skills. To this end, the required minor in Philosophy provides an opportunity to cultivate these skills.

Students are strongly advised to take philosophy courses over and above the minimum requirements for a minor, including independent studies and honors research courses. Those who take at least eight philosophy classes are encouraged to speak with an advisor about the possibility of obtaining a double major with Philosophy.

---

1 [http://www.americanbar.org/groups/legal_education/resources/pre_law.html](http://www.americanbar.org/groups/legal_education/resources/pre_law.html)
### Major Requirements

**Rule A: Society**

Select 6 hours from the following courses:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFST 252</td>
<td>Introduction to Hip-Hop Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFST 300</td>
<td>Blacks in the United States, 1607-1877</td>
<td>3</td>
</tr>
<tr>
<td>AFST 301</td>
<td>Blacks in the United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>AFST 317</td>
<td>Racial and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>AFST 352</td>
<td>Africana Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFST 353</td>
<td>Radical Black Philosophies of Race and Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFST 401</td>
<td>Slavery in World History</td>
<td>3</td>
</tr>
<tr>
<td>AFST 425</td>
<td>Africana Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 205</td>
<td>Peoples and Cultures of the World</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 210</td>
<td>Social and Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 404</td>
<td>Women and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 409</td>
<td>Science, Pseudoscience and Critical Thinking in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>COMM 307</td>
<td>Mass Communication, Law, and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM 327</td>
<td>American Oratory</td>
<td>3</td>
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<tr>
<td>COMM 335</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 354</td>
<td>Political Economy of Telecommunication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 425</td>
<td>Rhetoric of the Civil Rights Movement</td>
<td>3</td>
</tr>
<tr>
<td>COMM 431</td>
<td>Rhetoric of Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>COMM 438</td>
<td>Propaganda</td>
<td>3</td>
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<tr>
<td>COMM 440</td>
<td>Political Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 446</td>
<td>Communication, Organizations and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM 460</td>
<td>Communication and Contemporary Issues</td>
<td>3</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Economics</td>
<td>3</td>
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<tr>
<td>ECON 318</td>
<td>The Economics of Gender and Race</td>
<td>3</td>
</tr>
<tr>
<td>ECON 322</td>
<td>Microeconomic Theory</td>
<td>3</td>
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<tr>
<td>HIST 300</td>
<td>Blacks in the United States, 1607-1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 301</td>
<td>Blacks in the United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 349</td>
<td>The Vietnam War/American War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 401</td>
<td>Slavery in World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 450</td>
<td>The Old South</td>
<td>3</td>
</tr>
<tr>
<td>HIST 451</td>
<td>The New South, 1876 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 455</td>
<td>History of the American City</td>
<td>3</td>
</tr>
<tr>
<td>HIST 459</td>
<td>American Society and Culture to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 460</td>
<td>American Society and Culture Since 1877</td>
<td>3</td>
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<td>HIST 461</td>
<td>History of American Women</td>
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<tr>
<td>HIST 473</td>
<td>History of Modern American Women</td>
<td>3</td>
</tr>
<tr>
<td>HUMA 211</td>
<td>Hebrew Scriptures</td>
<td>3</td>
</tr>
<tr>
<td>HUMA 213</td>
<td>New Testament</td>
<td>3</td>
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<tr>
<td>HUMA 303</td>
<td>Near Eastern Religions</td>
<td>3</td>
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<td>HUMA 304</td>
<td>Indian and Oriental Religions</td>
<td>3</td>
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<tr>
<td>HUMA 321</td>
<td>Political Islam and Jihad</td>
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<tr>
<td>INTS 301</td>
<td>Theories of Globalization</td>
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<tr>
<td>PHIL 203</td>
<td>Technology and Human Values</td>
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<td>PHIL.252</td>
<td>Introduction to Hip-Hop Philosophy</td>
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<td>PHIL.283</td>
<td>Latin American Philosophy</td>
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<tr>
<td>PHIL.331</td>
<td>Philosophy of Religion</td>
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<tr>
<td>PHIL.332</td>
<td>Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL.352</td>
<td>Africana Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL.353</td>
<td>Radical Black Philosophies of Race and Racism</td>
<td>3</td>
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<tr>
<td>PHIL.409</td>
<td>Studies in Gender and Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 203</td>
<td>Introduction to Political Theory</td>
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<tr>
<td>POLS302</td>
<td>The Mass Media and Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 304</td>
<td>Latino Politics in the United States</td>
<td>3</td>
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<tr>
<td>POLS 306</td>
<td>Contemporary Political Problems and Issues</td>
<td>3</td>
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<td>POLS 312</td>
<td>Ethnic Conflict</td>
<td>3</td>
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<tr>
<td>POLS 313</td>
<td>Public Opinion</td>
<td>3</td>
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<td>POLS 314</td>
<td>Interest Groups</td>
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<td>Political Parties</td>
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<td>POLS 316</td>
<td>Urban Politics</td>
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<td>Course Prefix &amp; Number</td>
<td>Course Name</td>
<td>Credit Hours</td>
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<td>POLS 320</td>
<td>Race and Politics in the United States</td>
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<td>POLS 350</td>
<td>Modern Political Thought</td>
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<td>Theories of Democracy</td>
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<td>POLS 413</td>
<td>American Foreign Policy</td>
<td>3</td>
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<tr>
<td>RELS 211</td>
<td>Hebrew Scriptures</td>
<td>3</td>
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<tr>
<td>PSYC 206</td>
<td>Black Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 208</td>
<td>Stereotypes, Prejudice, and Minority Experience</td>
<td>3</td>
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<td>PSYC 209</td>
<td>Psychology of Culture and Diversity</td>
<td>3</td>
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<tr>
<td>PSYC 210</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>3</td>
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<td>RELS 213</td>
<td>New Testament</td>
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<tr>
<td>RELS 321</td>
<td>Hebrew Scriptures Political Islam and Jihad</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 205</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 207</td>
<td>Introduction to Gender and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 304</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 314</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 317</td>
<td>Racial and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 413</td>
<td>Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 424</td>
<td>Women and Work in Society</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 312</td>
<td>Hispanic Culture and Civilization: 18th Century to Present</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 411</td>
<td>Contemporary Hispanic Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 461</td>
<td>Topics in Hispanic Culture</td>
<td>3</td>
</tr>
<tr>
<td>WGST 200</td>
<td>Introduction to Women's and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGST 207</td>
<td>Introduction to Gender and Society</td>
<td>3</td>
</tr>
<tr>
<td>WGST 302</td>
<td>Women and Religion</td>
<td>3</td>
</tr>
<tr>
<td>WGST 318</td>
<td>The Economics of Gender and Race</td>
<td>3</td>
</tr>
<tr>
<td>WGST 461</td>
<td>History of American Women</td>
<td>3</td>
</tr>
<tr>
<td>WGST 391</td>
<td>Studies in Gender and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>WGST 404</td>
<td>Women and Culture</td>
<td>3</td>
</tr>
<tr>
<td>WGST 409</td>
<td>Studies in Gender and Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>WGST 424</td>
<td>Women and Work in Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Rule B: Ethics**

Select **6 hours** from the following courses:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 111</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Technology and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 314</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 315</td>
<td>Military Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 353</td>
<td>Radical Black Philosophies of Race and Racial</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 381</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 480</td>
<td>Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 482 W</td>
<td>Ethics and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 485</td>
<td>Directed Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 489</td>
<td>Special Topics in</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 327</td>
<td>Morality and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Rule C: Law, Regulation and Policy**

Select **6 hours** from the following courses:

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 307</td>
<td>Mass Communication, Law, and Society</td>
<td>3</td>
</tr>
<tr>
<td>ECON 420</td>
<td>Law and Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 425</td>
<td>The Organization of Industry</td>
<td>3</td>
</tr>
<tr>
<td>ECON 426</td>
<td>Economics of Antitrust and Regulation</td>
<td>3</td>
</tr>
<tr>
<td>EHHRD 210</td>
<td>Legal and Ethical Environment of HRD</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 450</td>
<td>Political Reporting</td>
<td>3</td>
</tr>
<tr>
<td>Course Prefix &amp; Number</td>
<td>Course Name</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>HIST 447</td>
<td>Law and Society in the United States</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 209</td>
<td>Business, Government and Society</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 212</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 334 W</td>
<td>Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 351</td>
<td>Law and Legislation</td>
<td>3</td>
</tr>
<tr>
<td>POLS 353</td>
<td>Constitutional Rights and Liberties</td>
<td>3</td>
</tr>
<tr>
<td>POLS 355</td>
<td>United States Constitutional Development</td>
<td>3</td>
</tr>
<tr>
<td>POLS 356</td>
<td>Law, Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 357</td>
<td>National Judicial Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 358</td>
<td>Comparative Judicial Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 461</td>
<td>Jurisprudence</td>
<td>3</td>
</tr>
<tr>
<td>POLS 462</td>
<td>Women and the Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 475</td>
<td>Government and the Economy</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 313</td>
<td>Forensic Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 354</td>
<td>Conflict and Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 445</td>
<td>Sociology of Law</td>
<td>3</td>
</tr>
<tr>
<td>WGST 462</td>
<td>Women and the Law</td>
<td>3</td>
</tr>
</tbody>
</table>

**Rule D: Experiential Component and Supplemental Studies**

Select a total of 6 hours from Group A and B (PHIL 484 or an equivalent is required)

**Group A**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 484</td>
<td>Professional Internship</td>
<td>0-3</td>
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</table>

**Group B**

<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 203</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMM 240</td>
<td>Rhetorical Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM 243</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>COMM 301</td>
<td>Rhetoric in Western Thought</td>
<td>3</td>
</tr>
<tr>
<td>COMM 324</td>
<td>Communication Leadership and Conflict Management</td>
<td>3</td>
</tr>
<tr>
<td>COMM 325</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>COMM 327</td>
<td>American Oratory</td>
<td>3</td>
</tr>
<tr>
<td>COMM 420</td>
<td>Gender and Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>Technical and Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>WGST 403</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>Any course from the Rules A, B, or C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>As approved by an Advisor</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**University Core and College Requirements**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Prefix &amp; Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from:</td>
<td>ENGL 103</td>
<td>Introduction to Rhetoric and Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td></td>
</tr>
<tr>
<td>Select from:</td>
<td>COMM 203</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMM 243</td>
<td>Argumentation and Debate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 210</td>
<td>Technical and Business Writing</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 240</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH</td>
<td>Any courses with the KMT1 attribute</td>
<td>3</td>
</tr>
<tr>
<td>Life and Physical Science</td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>Any courses with the KLPS attribute</td>
<td></td>
</tr>
<tr>
<td>14 hours in the same language</td>
<td></td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>L.P.C.</td>
<td></td>
<td>Any courses with the KLPC attribute</td>
<td>3</td>
</tr>
<tr>
<td>Creative Arts</td>
<td>Any courses with the KCRA attribute</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioural Science</td>
<td>Any courses with the KSOC attribute</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>To be selected from the college of Liberal Arts list</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Citizenship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>POLS 206</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>POLS 207</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any U.S. History but no more than one Texas History course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UICD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing Requirement</td>
<td>Any two PHIL course with the UWRT attribute</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General Electives and 2 Minors: PHIL minor and one which must be from outside the college**

| General Electives | Includes the two minors PHIL (15 hours) and 15-18 Second Minor | 34 |

**Summary**

<table>
<thead>
<tr>
<th>SEAL Requirements</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core and College Requirements</td>
<td>62</td>
</tr>
<tr>
<td>General Electives and Minors</td>
<td>34</td>
</tr>
<tr>
<td>Total Credit Hours for a S.E.A.L. Degree</td>
<td>120</td>
</tr>
</tbody>
</table>
Subject: RE: Request from Philosophy
From: Fred Nafukho <fnafukho@tamu.edu>
Date: 9/10/2015 10:04 AM
To: "raymond@tamu.edu" <raymond@tamu.edu>

Dear Dr. Raymond,

As promised, I have consulted with the program chair and we are in agreement that you include EHRD 210: Legal and Ethical Environment of HRD in your new and innovative degree program. We require our students to take a philosophy course and so this is good for our continued collaboration.

I wish you success in the development of this innovative degree program.

Best regards,
Fred

From: D. Raymond [mailto:raymond@tamu.edu]
Sent: Wednesday, September 9, 2015 5:18 PM
To: Fred Nafukho <fnafukho@tamu.edu>
Subject: Request from Philosophy

Dear Dr. Nafukho,

The Philosophy Department is working to develop a University Studies bachelor’s degree with an emphasis in Society, Ethics and Law (S.E.A.L.). We hope to serve students who are interested in law school, but also those who are looking for a set of skills that is highly transferable to government positions, non-profits, and businesses alike. Our proposal is to structure the degree around the following three elements:

- A 24-hour interdisciplinary major, emphasizing social, ethical, political and legal issues;
- A minor in philosophy;
- A minor in a field outside the Liberal Arts.

Advising for the degree would be provided by the Department of Philosophy.

In service of the interdisciplinary major, we request permission to include a course from your department as an option for our students. Specifically, we are interested in including:

**EHRD 210**

Below you will find a draft of our proposal, which clarifies how this course would fit into the program, as well as the requests we are making of other departments. We hope to enroll 30 students a year for the S.E.A.L University Studies degree.

I will be happy to answer any questions you may have. Please let me know if we have your permission to list the course.

Yours,

Dr. D. Raymond
Director of Undergraduate Studies
Assistant Instructional Professor
Subject: RE: Request from Phil
From: "Boswell, Wendy R." <WBoswell@mays.tamu.edu>
Date: 9/14/2015 1:18 PM
To: "raymond@tamu.edu" <raymond@tamu.edu>

Dr. Raymond,

Your request was forwarded to me from Duane Ireland – I am now the Department Head in Management. In response to your request, there are several elements that actually will not work. I will lay out the specifics here:

1. Please change the MGMT 211 course to MGMT 209. MGMT 209 is essentially the non-business majors version of 211.
2. MGMT 212 is fine to include as an option for your students
3. MGMT 429 hasn’t been taught in our department since the 90’s and is not scheduled to be taught in foreseeable future. So I would not encourage you to list that course.
4. In regards to MGMT 430, we will be unlikely to have capacity to accommodate your students given we are already challenged with having the capacity for our own students that have it as a required course. Thus I cannot support you listing MGMT430 as an elective, although this may change in the future if we increase the number of sections we can offer
5. Similar issue with MGMT 432. This is a required course for students in a particular track in our department, and we will not have extra capacity given the demands already placed on that course

Hope this helps, and certainly let me know if you’d like to discuss further.

Thanks! Wendy

Wendy R. Boswell, Ph.D. | Department Head of Management
and Jerry and Kay Cox Professor of Management
Mays Business School | Texas A&M University
4221 TAMU | College Station, TX 77843-4221

ph: 979.845.4045 | fax: 979.845.9641 | email: wboswell@tamu.edu

---

From: D. Raymond [raymond@tamu.edu]
Sent: Wednesday, September 09, 2015 5:01 PM
To: Ireland, Duane
Subject: Request from Phil

Dear Dr. Ireland,

The Philosophy Department is working to develop a University Studies bachelor’s degree with an emphasis in Society, Ethics and Law (S.E.A.L.). We hope to serve students who are interested in law school, but also those who are looking for a set of skills that is highly transferable to government positions, non-profits, and businesses alike. Our proposal is to structure the degree around the following three elements:
Subject: RE: Request from the Dept. of Philosophy
From: "Leland S. Pierson" <lspierson@tamu.edu>
Date: 9/10/2015 10:41 AM
To: "raymond@tamu.edu" <raymond@tamu.edu>
CC: "Heather Wilkinson (h-wilkinson@tamu.edu)" <h-wilkinson@tamu.edu>

Dr. Raymond,

Incorporation of BESC 367 into your S.E.A.L. curriculum is approved. Many of the current students who take the course greatly benefit as they move into the professional areas that you mentioned.

Dr. Heather Wilkinson is the professor who developed and teaches BESC 367. She is implementing an on-line version of the course to complement the classroom version.

Her email is: H-wilkinson@tamu.edu).

Sincerely,

Leland (Sandy) Pierson

Leland (Sandy) Pierson III
Professor and Head
Plant Pathology and Microbiology
Bioenvironmental Sciences
L.F. Peterson 120A
Texas A&M University
College Station, TX 77843-2132
lspierson@tamu.edu
https://agrilife-tamu.webex.com/meet/leland.pierson

From: D. Raymond [mailto:raymond@tamu.edu]
Sent: Wednesday, September 09, 2015 4:55 PM
To: Leland S. Pierson <lspierson@tamu.edu>
Subject: Request from the Dept. of Philosophy

Dear Dr. Pierson,

The Philosophy Department is working to develop a University Studies bachelor’s degree with an emphasis in Society, Ethics and Law (S.E.A.L.). We hope to serve students who are interested in law school, but also those who are looking for a set of skills that is highly transferable to government positions, non-profits, and businesses alike. Our proposal is to structure the degree around the
SPECIAL CONSIDERATION

COLLEGE OF LIBERAL ARTS
CERTIFICATE IN PHILOSOPHY PRE-LAW
REQUEST FOR A NEW CERTIFICATE PROGRAM
Texas A&M University  
New Certificate, Bachelors, Masters, or Doctoral Program  
Undergraduate • Graduate • Professional  
• Proposal Checklist •

Program request type:  
☑ Undergraduate  ☐ Graduate  ☐ First Professional (ex., DVM, JD, MD, etc.)

Requested by the Department or Unit of:  
Department of Philosophy

Program Type, Level, Designation, Title, Description, Hours

Program Type:  
☑ Certificate Program  ☐ Degree Program

Program Level:  
☑ UG Certificate  ☐ Grad Certificate  ☐ Bachelor  ☐ Master  ☐ Doctoral  ☐ Professional

Degree Designation (i.e., BS, BA, MA, MS, MAg, MEd, PhD, EdD, etc.)  

Title of proposed program:  
Philosophy Pre-Law Certificate

Proposed CIP Code (if known):  

Brief program description (provide a catalog description for undergraduate and graduate certificates):

The Department of Philosophy offers a Pre-law Certificate that is primarily guided by the published recommendations of the American Bar Association (A.B.A.). The A.B.A. encourages prospective law students to pursue classes that cultivate a set of skills that will enhance the study of law while at Law School. The study of philosophy typically develops this recommended skill set. To this end, Philosophy’s Pre-law Certification requires that students take philosophy classes that lend themselves to the cultivation of the following:

1. **Problem Solving** involves “courses and other experiences that will engage [students] in critical thinking about important issues, challenge ... beliefs and improve ... tolerance for uncertainty and criticism.”

2. **Critical Reading** involves “close reading and critical analysis of complex textual material.”

3. **Writing and Editing** involves “preparing original pieces of substantial length and revising written work in response to constructive criticism. [...] Language is the most important tool of a lawyer, and lawyers must learn how to express themselves clearly and concisely.”

4. **Oral Communication and Listening** involves “the ability to speak clearly and persuasively... and excellent listening skills.”

5. **Research** involves “undertaking a project that requires significant library research and the analysis of large amounts of information obtained from that research.”

The Certification requires students to take 12 hours of philosophy classes: three hours of which help with LSAT preparation; three hours introduce students to the philosophy of law or social political philosophy; and 6 addition hours at the 300-400 level, with at least 3 hours in a writing intensive philosophy class.

---

1  [http://www.americanbar.org/groups/legal_education/resources/pre_law.html](http://www.americanbar.org/groups/legal_education/resources/pre_law.html)

---

**Minimum program semester credit hours (SCH)**  
Certificates - 12 hours*  
Bachelors - 120 hours  
Masters - 30 hours

**Proposed program hours:**  
12

* 12 hours minimum to appear on transcript

**Certificate Programs**  
☑ Embedded  
☐ Standalone

* Students take coursework that will result in a degree and certificate being earned at the same time.*

**Off-Campus or Distance Delivery**  
5% of Program a student can take off-campus or through Distance Education  
Program Start Date  
SACSCOC Approval**  
When Provost needs to inform SACSCOC

---

1  [http://www.americanbar.org/groups/legal_education/resources/pre_law.html](http://www.americanbar.org/groups/legal_education/resources/pre_law.html)

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Revised 04.11.2014
Texas A&M University
New Certificate, Bachelors, Masters, or Doctoral Program
Undergraduate • Graduate • Professional
• Proposal Checklist •

☐ 25% ___ Notification Only ___
☐ 50% ___ Approval Required ___ 6 months before first day of program
☐ 80% ___ Approval Required ___ 6 months before first day of program
☐ 100% ___ Approval Required ___ 6 months before first day of program

**Notification letter arranged through the Vice Provost for Academic Affairs and sent by TAMU President.**

Program Delivery Mode

☑ On-campus Location
☐ Broadcast / TTVN
☐ Specific off-campus location***
☐ Distance Education / Internet ☐ In-State ☐ Out-of-State Start Date ___
☐ Out-of-Country Will this program be offered with another institution? ☐ Yes ☐ No

If yes, contact the Vice Provost for Academic Affairs for additional reporting requirements.

***Is this an approved SACSCOC location? ☐ Yes ☐ No If no, a program prospectus must be sent to SACSCOC.

Approved locations as of March 2012: TAMU-Galveston, TAMU-Qatar, University Center-The Woodlands, CityCentre-Houston, Dubai and Saudi Arabia.

Program Funding

Has program funding been finalized at the department or college level? ☑ Yes ☐ No

If no, explain or attach budget: ___

Will new costs for the first five years of the program be under $2 million? ☑ Yes ☐ No

If new costs exceed $2 million, coordinating board approval is required.
**Submitted by (Contact Person):**

<table>
<thead>
<tr>
<th>Dr. Dwayne Raymond</th>
<th><a href="mailto:raymond@tamu.edu">raymond@tamu.edu</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>Director of Undergraduate Studies</td>
<td></td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td></td>
</tr>
</tbody>
</table>

**Certification Statement**

By signing below, the Dean of the College certifies the proposed program complies with coordinating board standards. If the program is delivered through Distance Education, the Dean of the College certifies that they are following the *Principles of Good Practice for Academic Degree and Certificate Programs and Credit Courses Offered Electronically*.

Use additional signature lines if program is between three or more departments or colleges.

<table>
<thead>
<tr>
<th>10/6/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/19/15</td>
</tr>
<tr>
<td>10/20/15</td>
</tr>
</tbody>
</table>

**Additional Approvals Required:** Faculty Senate and President.
New Program Request Form for Certificate Programs

Directions: An institution shall use this form to propose a new bachelor’s or master’s degree program. In completing the form, the institution should refer to the document Standards for Bachelor’s and Master’s Programs, which prescribes specific requirements for new degree programs. Note: This form requires signatures of (1) the Chief Executive Officer, certifying adequacy of funding for the new program; (2) a member of the Board of Regents (or designee), certifying Board approval, and (3) if applicable, a member of the Board of Regents or (designee), certifying that criteria have been met for staff-level approval. NOTE: Preliminary authority is required for all engineering programs. An institution that does not have preliminary authority for a proposed engineering program shall submit a separate request for preliminary authority prior to submitting the degree program request form. That request shall address criteria set in Coordinating Board rules Section 5.24 (a).

Administrative Information

1. Institution: Texas A&M University

2. Program Name – Show how the program would appear on the Coordinating Board’s program inventory (e.g., Bachelor of Business Administration degree with a major in Accounting):

   Philosophy Pre-law Certificate

3. Proposed CIP Code: 38.0101.0001

4. Brief Program Description – Describe the program and the educational objectives:

   Philosophy Pre-Law Certificate is intended to meet the needs of students who are preparing for law school by cultivating a skill set that, according to the American Bar Association, enhances the study of law. By the end of the certificate program, students will be better equipped to:
   (1) closely read and critically analyze complex textual material; (2) construct persuasive arguments; (3) express themselves clearly and concisely in written and oral presentations; (4) critically think about important issues, and develop a tolerance of uncertainty.

   Number of Semester Credit Hours Required 12 hours

5. Administrative Unit – Identify where the program would fit within the organizational structure of the university (e.g., The Department of Electrical Engineering within the College of Engineering):

   The Department of Philosophy within the College of Liberal Arts

6. Proposed Implementation Date – Report the first semester and year that students would enter the program:

   Fall semester of the Academic Year 2016

7. Contact Person – Provide contact information for the person who can answer specific questions about the program:
Name: Dr. Dwayne Raymond

Title: Director of Undergraduate Studies, Department of Philosophy

E-mail: raymond@tamu.edu

Phone: (979) 847-6127

Program Information

I. Need

Note: Complete I.A and I.B only if preliminary authority for the program was granted more than four years ago. This includes programs for which the institution was granted broad preliminary authority for the discipline.

A. Job Market Need – Provide short- and long-term evidence of the need for graduates in the job market.

B. Student Demand – Provide short- and long-term evidence of demand for the program.

C. Enrollment Projections – Use this table to show the estimated cumulative headcount and full-time student equivalent (FTSE) enrollment for the first five years of the program. (Include majors only and consider attrition and graduation.)

<table>
<thead>
<tr>
<th>YEAR</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headcount</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>FTSE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

II. Quality

A. Certificate and Degree Requirements – Use this table to show the certificate and degree requirements of the program. (Modify the table as needed; if necessary, replicate the table for more than one option.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Curriculum</td>
<td></td>
</tr>
<tr>
<td>(bachelor's degree only)</td>
<td></td>
</tr>
<tr>
<td>Required Courses PHIL 240 Introduction to logic</td>
<td>3</td>
</tr>
</tbody>
</table>
B. **Curriculum** – Use these tables to identify the required courses and prescribed electives of the program, and curriculum as it will appear in the undergraduate and graduate catalog. Note with an asterisk (*) courses that would be added if the program is approved. *(Add and delete rows as needed. If applicable, replicate the tables for different tracks/options as shown in the undergraduate catalog.)*

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Required Courses</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 240</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Prescribed Elective Courses</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHIL 334 Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 332 Social and Political Philosophy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any PHIL 300-400 level course with a ‘W’ designation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL485 Directed Studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL491 Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHIL 497 Independent Honors Studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select any PHIL course 300-400 level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other <em>(Specify, e.g., internships, clinical work)</em></td>
<td>(if not included above)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>TOTAL SCH</th>
<th>12</th>
</tr>
</thead>
</table>

Revised 01.14.2014
C. Faculty – Use these tables to provide information about Core and Support faculty. Add an asterisk (*) before the name of the individual who will have direct administrative responsibilities for the program. (Add and delete rows as needed.)

Philosophy has 13 Professors, 6 Associate Professors, 1 Assistant Professor, 1 Instructional Assistant Professor and 2 Lectures, all of whom teach PHIL courses.

<table>
<thead>
<tr>
<th>Name of Core Faculty and Faculty Rank</th>
<th>Highest Degree and Awarding Institution</th>
<th>Courses Assigned in Program</th>
<th>% Time Assigned To Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christopher Menzel Professor</td>
<td>PhD. in Philosophy University of Notre Dame</td>
<td>PHIL 240</td>
<td>25%</td>
</tr>
<tr>
<td>Linda Radzik Professor</td>
<td>PhD. in Philosophy University of Arizona</td>
<td>PHIL 332 W, PHIL 334, PHIL 381 W</td>
<td>25%</td>
</tr>
<tr>
<td>Michael Hand Professor</td>
<td>PhD. in Philosophy Florida State</td>
<td>PHIL 240</td>
<td>25%</td>
</tr>
<tr>
<td>*Dwayne Raymond Instructional Asst. Professor</td>
<td>PhD. in Philosophy University of Western Ontario, London, Canada</td>
<td>PHIL 240, PHIL 410 W</td>
<td>25%</td>
</tr>
<tr>
<td>Daniel Conway Professor</td>
<td>PhD. in Philosophy U. California, San Diego</td>
<td>PHIL 334</td>
<td>25%</td>
</tr>
<tr>
<td>Kristi Sweet Asso. Professor</td>
<td>Ph.D. in Philosophy Loyola University, Chicago</td>
<td>PHIL 334</td>
<td>25%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Support Faculty and Faculty Rank</th>
<th>Highest Degree and Awarding Institution</th>
<th>Courses Assigned in Program</th>
<th>% Time Assigned To Program</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

D. Students – Describe general recruitment efforts and admission requirements. How will students be accepted into the program? In accordance with the institution’s

Revised 01.14.2014
Students are recruited from Philosophy courses, and from focus courses that are taught in Philosophy. In addition students will be recruited from the general student body. TAMU’s Pre-Law Advisors will assist in marketing the certificate to students who have expressed an interest in attending law school. To retain students, regular contact between students and advisors will be maintained.

E. Library – Provide the library director’s assessment of library resources necessary for the program. Describe plans to build the library holdings to support the program.

No additional recourses are required for the certificate.

F. Facilities and Equipment – Describe the availability and adequacy of facilities and equipment to support the program. Describe plans for facility and equipment improvements/additions.

Existing YMCA classrooms and administrative offices will be used to support this program.

G. Accreditation – If the discipline has a national accrediting body, describe plans to obtain accreditation or provide a rationale for not pursuing accreditation.

Not applicable for this certificate.

H. Evaluation – Describe the evaluation process that will be used to assess the quality and effectiveness of the new degree program.

Classroom participation, G.P.R., graduation rates, and a post-graduation survey.

I. Administration of Program – Describe how the program will be administered. Where will the program be administered (i.e., department, college)?

The program will be administered by the Department of Philosophy, College of Liberal Arts.

III. Costs and Funding

Five-Year Costs and Funding Sources - Use this table to show five-year costs and sources of funding for the program.
<table>
<thead>
<tr>
<th>Five-Year Costs</th>
<th>Five-Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel(^1)</td>
<td>Reallocated Funds</td>
</tr>
<tr>
<td>Facilities and Equipment</td>
<td>Anticipated New Formula</td>
</tr>
<tr>
<td></td>
<td>Funding(^3)</td>
</tr>
<tr>
<td>Library, Supplies,</td>
<td>Special Item Funding</td>
</tr>
<tr>
<td>and Materials</td>
<td></td>
</tr>
<tr>
<td>Other(^2)</td>
<td>Other(^4)</td>
</tr>
<tr>
<td>Total Costs</td>
<td>Total Funding</td>
</tr>
</tbody>
</table>

1. Report costs for new faculty hires, graduate assistants, and technical support personnel. For new faculty, prorate individual salaries as a percentage of the time assigned to the program. If existing faculty will contribute to program, include costs necessary to maintain existing programs (e.g., cost of adjunct to cover courses previously taught by faculty who would teach in new program).
2. Specify other costs here (e.g., administrative costs, travel).
3. Indicate formula funding for students new to the institution because of the program; formula funding should be included only for years three through five of the program and should reflect enrollment projections for years three through five.
4. Report other sources of funding here. In-hand grants, “likely” future grants, and designated tuition and fees can be included.
Signature Page

1. Adequacy of Funding – The chief executive officer shall sign the following statement:

   I certify that the institution has adequate funds to cover the costs of the new program. Furthermore, the new program will not reduce the effectiveness or quality of existing programs at the institution.

   ________________________________  __________________________
   Chief Executive Officer           Date

2. Board of Regents or Designee Approval – A member of the Board of Regents or designee shall sign the following statement:

   On behalf of the Board of Regents, I approve the program.

   ________________________________  __________________________
   Board of Regents (Designee)        Date of Approval

3. Board of Regents Certification of Criteria for Commissioner of Assistant Commissioner Approval – For a program to be approved by the Commissioner or the Assistant Commissioner for Academic Affairs and Research, the Board of Regents or designee must certify that the new program meets the eight criteria under TAC Section 5.50 (b): The criteria stipulate that the program shall:

   (1) be within the institution’s current Table of Programs;
   (2) have a curriculum, faculty, resources, support services, and other components of a degree program that are comparable to those of high quality programs in the same or similar disciplines at other institutions;
   (3) have sufficient clinical or in-service sites, if applicable, to support the program;
   (4) be consistent with the standards of the Commission of Colleges of the Southern Association of Colleges and Schools and, if applicable, with the standards or discipline-specific accrediting agencies and licensing agencies;
   (5) attract students on a long-term basis and produce graduates who would have opportunities for employment; or the program is appropriate for the development of a well-rounded array of basic baccalaureate degree programs at the institution;
   (6) not unnecessarily duplicate existing programs at other institutions;
   (7) not be dependent on future Special Item funding
   (8) have new five-year costs that would not exceed $2 million.

   On behalf of the Board of Regents, I certify that the new program meets the criteria specified under TAC Section 5.50 (b).

   ________________________________  __________________________
   Board of Regents (Designee)        Date

Revised 01.14.2014