The Undergraduate Curriculum Committee recommends approval of the following:

1. New Courses

**CVEN 450. AutoCAD in Civil Engineering.** (0-3). **Credit 1.** Review and application of basic commands and operations in AutoCAD; overview of civil engineering design projects and land surveying; use of AutoCAD Civil 3D or proprietary packages for reduction of land surveying data. Prerequisites: CVEN 250 or ENDG 105. Restriction: Junior or senior classification.

**ECEN 467. Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems.** (3-3). **Credit 4.** Solar radiation characteristics and measurement; optical coatings including reflection, transmission, absorption and emissivity; concentrating optics, tracking and etendue limit; photovoltaic cells, modules and systems overview; introduction to solar thermal systems. Prerequisite: Grade of C or better in ECEN 322 and ECEN 370. Restriction: Junior or senior classification.

**ESSM 310. Forest Tree Improvement and Regeneration.** (3-0). **Credit 3.** Genetic improvement or manipulation of forest trees through breeding or transformation; regeneration of forests including reproduction, nursery production, stand establishment, natural regeneration and problems affecting regeneration. Prerequisite: BIOL 101, BIOL 113 or equivalent. Restriction: Junior or senior classification.

**ESSM 404. Changing Natural Resource Policy.** (3-0). **Credit 3.** Process through which environmental policies are changed; study theories of social and political change; teams use theories with their original research on environmental policy problems to create and implement plans for changing environmental policies in their own communities. Restriction: Junior or senior classification or approval of instructor.

**GEOL 102. Principles of Geology Laboratory.** (0-2). **Credit 1.** Laboratory exercise-based introduction to the physical and chemical nature of the Earth and dynamic process that shape it; rock and mineral types; topographic and geologic maps; complements GEOL 101 but may be taken independently.

**MSEN 222. Material Science.** (3-0). **Credit 3.** Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure. Prerequisites: CHEM 102, or CHEM 104 and CHEM 114, or CHEM 107 and CHEM 117; PHYS 218. Cross-listed with MEEN 222.

2. Change in Courses

**AGEC 424. Rural Entrepreneurship I**

Course title
   From: Rural Entrepreneurship I.
   To: Agribusiness Entrepreneurship – Economic Analysis.

Prerequisites
   From: AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 325 or AGEC 330 or FINC 341 or FINC 409; junior or senior classification; or approval of department head.
   To: AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 324 or AGEC 330 or FINC 341 or FINC 409. Restriction. Junior or senior classification or approval of instructor.
AGEC 425. Rural Entrepreneurship II.

Course title
From: Rural Entrepreneurship II.
To: Agribusiness Entrepreneurship – Financial Analysis.


Lab contact hours
From: (3-0). Credit 3.
To: (3-1). Credit 3.


Lab contact hours and semester credit hours
From: (3-3). Credit 4.
To: (3-0). Credit 3.

MSEN 310. Structure of Materials.

Prerequisites
From: MSEN 201 or approval of instructor; junior or senior classification.
To: MSEN 201, MSEN 222, AERO 413, BMEN 343, CHEN 313, CVEN 306, ENTC 206, or NUEN 265, or approval of instructor.

MSEN 410. Materials Processing.

Prerequisites
From: MSEN 201 or approval of instructor; junior or senior classification.
To: MSEN 201, MSEN 222, AERO 413, BMEN 343, CHEN 313, CVEN 306, ENTC 206, or NUEN 265, or approval of instructor.

MSEN 420. Polymer Science.

Prerequisites
From: MSEN 201 or MEEN 222 or AERO 213 or CHEN 313; junior or senior classification.
To: MSEN 201, MSEN 222, AERO 413, BMEN 343, CHEN 313, CVEN 306, ENTC 206, or NUEN 265, or approval of instructor.


Prerequisites
From: MSEN 201 or approval of instructor; junior or senior classification.
To: MSEN 201, MSEN 222, AERO 413, BMEN 343, CHEN 313, CVEN 306, ENTC 206, or NUEN 265, or approval of instructor.
PETE 335. Technical Presentations I.

Course description
From: Preparation of a written technical paper proposal on a subject related to petroleum technology and an oral presentation of the proposal in a formal technical conference format; oral presentations are judged by petroleum industry professionals at the departmental student paper contest held during the same academic year.
To: Preparation of a written technical paper proposal on a subject related to petroleum technology and an oral presentation of the proposal in a formal technical conference format.

PETE 355. Drilling Engineering.

Prerequisites
From: PETE 225 with a grade C or better, PETE 314; Corequisites: PETE 321, PETE 325.
To: CVEN 305, PETE 225, PETE 314; Corequisites: PETE 321, PETE 325.

PETE 435. Technical Presentations II.

Course description
From: Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format; oral presentations are judged by petroleum industry professionals at the departmental student paper contest held during the same academic year.
To: Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format.

PHLT 301. Orientation to Public Health.

Course number
From: PHLT 301.
To: PHLT 201.

RPTS 474. Management of Programs and Services for Youth.

Lab contact hours and semester credit hours
From: (3-2). Credit 4.
To: (3-0). Credit 3.


Course title
From: Conservation Biology and Wildlife Habitat Management.
To: Wildlife Habitat Management.
3. Change in Curriculum

   College of Agriculture and Life Sciences
     Department of Ecosystem Science and Management
     BS in Ecological Restoration
4. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Ecosystem Science and Management
BS in Rangeland Ecology and Management – Ranch Management Option
5. Change in Curriculum

**College of Agriculture and Life Sciences**

Department of Ecosystem Science and Management

BS in Rangeland Ecology and Management – Rangeland Resources Option
6. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Ecosystem Science and Management
Minor in Rangeland Ecology and Management
7. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Recreation, Park and Tourism Sciences
BS in Recreation, Park and Tourism Sciences and
Youth Development Certificate
8. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Recreation, Park and Tourism Sciences
Tourism and Hospitality Management Certificate
9. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Wildlife and Fisheries Sciences
Minor in Wildlife and Fisheries Sciences
10. Change in Curriculum

   **Dwight Look College of Engineering**
   Department of Materials Science and Engineering
   Minor in Materials Science and Engineering
11. Texas A&M University at Galveston

New Course

**MART 205. Marine Surveying. (3-0). Credit 3.** Fundamentals of marine surveying using the various types of maritime surveys; writing survey reports by meeting regulatory and industry standards for submission to maritime clients. Prerequisites: MART 202 and MART 203 (MART majors); or MARA 205 (MARA majors); or MARR 101 (MARR majors); or MARE 100 (MARR-NLO majors); or approval of instructor.
12. Texas A&M University at Galveston

Change in Curriculum

**Texas A&M University at Galveston**
Department of Maritime Administration
BS in Maritime Administration
13. Texas A&M University at Galveston

Change in Curriculum

Texas A&M University at Galveston
   Department of Maritime Administration
   BS in Maritime Administration and Master in Maritime Administration and Logistics (3+2)
14. Texas A&M University at Galveston

Change in Curriculum

Texas A&M University at Galveston
Department of Maritime Administration
Minor in Maritime Administration
15. Special Consideration

Mays Business School
   BBA in Business Administration
   Request for a new degree program
16. Special Consideration

**Dwight Look College of Engineering**
Department of Mechanical Engineering
Minor in Analysis, Design and Management of Energy Conversion Systems
Request for a new minor
17. Special Consideration

**Dwight Look College of Engineering**
Department of Mechanical Engineering
Minor in Control of Mechanical Systems
Request for a new minor
18. Special Consideration

**Dwight Look College of Engineering**  
Department of Mechanical Engineering  
Minor in Design and Simulation of Mechanical Systems  
Request for a new minor
**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 (DDS, MD, JD, PhamD, DVM)
2. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering
3. Course prefix, number and complete title of course: CVEN 450 Review and Application of AutoCAD Fundamentals in Civil Engineering Design
4. Catalog course description (not to exceed 50 words):
   Review of basic commands and operations in AutoCAD, and introduction to civil engineering design projects and land surveying, introduction to use of AutoCAD Civil 3D or proprietary packages for reduction of land surveying data.

5. Prerequisite(s):
   CVEN 250 or ENDG 105
   Junior or senior classification
   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
   Will this course be submitted to the Core Curriculum Council? [ ] Yes [ ] No
   [ ] P/F (CLAS)

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

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/export-control-basics-for-distance-education).

13. Approval recommended by:
   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:
   Associate Director, Curricular Services
   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 Description: Review and application of basic commands and operations in AutoCAD; overview of civil engineering design projects and land surveying; use of AutoCAD Civil 3D or proprietary packages for reduction of land surveying data.

Prerequisites: CVEN 250 or ENDG 105; Junior or Senior standing.

LEARNING OUTCOMES
At the end of this course, students will be able to:
1. Use basic AutoCAD functions to develop civil engineering designs.
2. Produce engineering drawings as required in CVEN 400, 456, and 483.
3. Reduce land survey data to engineering drawings as required in CVEN 403.

INSTRUCTOR INFORMATION
Jeffrey Otey
979.845.1648
j-otey@tamu.edu
CE/TTI 213

COURSE GRADING

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Attendance</td>
<td>50%</td>
</tr>
<tr>
<td>(The course meets four full days only; 20% penalty for each unexcused half-day of absence up to max of 50%)</td>
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<tr>
<td>Course Project*</td>
<td>50%</td>
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<tr>
<td>(Late work will be subject to a 10% penalty/hour late)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>

Grade Ranges: A: 90-100%, B: 80-89.99%, C: 70-79.99%, D: 60-69.99%, F: <59.99%

*Creation of a small set of construction plans building on each day’s course material.
The final result will be a set of plans that incorporates all of the covered topics.

For TAMU Attendance Policy, see Student Rule 7.

Textbooks: None

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
Students will abide by the Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.” For more information about the Aggie Honor System, please see http://aggiehonor.tamu.edu.
<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday Morning</td>
<td>13-Jan-15</td>
<td>Course Introduction, CAD Use in Industry, Construction Plan Sets</td>
</tr>
<tr>
<td>Tuesday Afternoon</td>
<td>13-Jan-15</td>
<td>File Management, Selection Methods, User Interface, Basic Commands</td>
</tr>
<tr>
<td>Wednesday Morning</td>
<td>14-Jan-15</td>
<td>Layers, Linetypes, CAD Standards, Blocks</td>
</tr>
<tr>
<td>Wednesday Afternoon</td>
<td>14-Jan-15</td>
<td>Annotations, Text, Dimensioning, Notes</td>
</tr>
<tr>
<td>Thursday Morning</td>
<td>15-Jan-15</td>
<td>File Structures, XREFS, Attributes</td>
</tr>
<tr>
<td>Thursday Afternoon</td>
<td>15-Jan-15</td>
<td>Model Space vs. Paper Space, Sheet Layout, Plotting, Viewports</td>
</tr>
<tr>
<td>Friday Morning</td>
<td>16-Jan-15</td>
<td>Survey Data, Point Files, Surfaces, Grading</td>
</tr>
<tr>
<td>Friday Afternoon</td>
<td>16-Jan-15</td>
<td>Work on Course Project (Due at 5:00 pm)</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):
   Department of Electrical and Computer Engineering

3. Course prefix, number and complete title of course:
   ECEN 467 Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems

4. Catalog course description (not to exceed 50 words):
   Solar radiation characteristics and measurement; optical coatings including reflection,
   transmission, absorption and emissivity; concentrating optics, tracking and enduse limit; photovoltaic cells, modules and systems overview;
   introduction to solar thermal systems.

5. Prerequisite(s):
   Grade of C or better in ECEN 322 and ECEN 370; junior or senior classification.

5 Cross-listed with:
   ECEN 767
   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. in ELEN or CEEN

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://spr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix  Course #  Title (excluding punctuation)
    ECEN  467  HARNESSING SOLAR ENERGY

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   3.00  3.00  4.00  1410010006  0936  16  17  0  0  3  6  3  2

   Approval recommended by:
   Aydin I. Kursilayan
   Department Head or Program Chair (Type Name & Sign)
   Date 4/15

   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:
   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  Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems  
ECEN 467  
Term  Spring TBA  
Lecture times and location  TR 2:20-3:35PM, JEB 7xx  
Section 501/601: TBD  
Section 502/602: TBD  
Section 503/603: TBD  
Section 504/604: TBD  
Section 505/605: TBD  
Section 506/606: TBD  

Official Class Syllabus  Posted on ecampus.tamu.edu  

Course Description and Prerequisites  
Solar radiation characteristics and measurement; Optical coatings including reflection, transmission, absorption and emissivity; Concentrating optics, tracking and etendue limit; Photovoltaic cells, modules and systems overview. Introduction to solar thermal systems.  

Prerequisites: Grade of C or better in ECEN 322 and ECEN 370; junior or senior classification.  

Learning Outcomes or Course Objectives  
- Describe and analyze optical coatings, including their refraction, absorption, transmission and reflection properties and wavelength dependence  
- Describe the physical basis for light-matter interactions and energy conversion, including those underlying optical detectors for different wavelength ranges and for photovoltaic cells  
- Apply optical analysis tools including ray optics, Gaussian beams, and diffraction to basic optical systems incorporating concentrating lenses and mirrors, understand etendue limit for concentrating systems  
- Analyze fundamental properties and limitations of photovoltaic cells, particularly as they relate to efficiency and various factors impacting efficiency  
- Develop laboratory skills and ability to measure solar irradiance, as well as the input and output energy for basic solar photovoltaic and thermal systems for calculating system efficiency  

Instructor Information  
Name  Christi Madsen  
Telephone number  979-845-4935  
Email address  cmadsen@tamu.edu  
Office hours  After lectures or by appointment  
Office location  JEB 724  
TA  TBA  

Textbook and/or Resource Material  
- Kalogirou, Solar Energy Engineering: Processes and Systems (2009), available online through library, Ch. 3-5.
Class Policies and Grading

Policies:
1. You are expected to attend all lectures and your assigned lab time.
2. Unexcused late work will be penalized 10% per day and in accordance with the university excused absence and attendance policy.
   See http://student-rules.tamu.edu/rule07.
3. Lab reports should be done on a word processor and printed for submission to the TA.
4. Graduate students taking ECEN 767 will be assigned 20% more problems in labs and tests compared to undergraduate students taking ECEN 467.

Grading:
Lab Reports (Lab Project report is treated as one of the lab reports) 50%
Midterm Exam 15%
Final Exam 35%
Grading scale: 90-100 A, 80-89 B, 70-79 C, 60-69 D, below 60 F.
Mid-term Exam: TBD  Final Exam: TBD
Project Report Deadline: TBD by 5pm. Submit report by email.

Lecture Schedule
Week 1  Introduction & Lab Safety
Week 2-3  Solar Irradiance: Global, Diffuse and Direct
Week 4-5  Transmission, Reflection, Absorption, and Emissivity
Week 6-7  Optical Coatings & Applications
Week 8  Concentrating Optics & Diffraction
Week 9-10  Photovoltaic Conversion: Cells, Efficiency limits
Week 11  Photovoltaic Systems
Week 12-13  Solar to thermal energy conversion
Week 14  Solar thermal systems

Lab Schedule

<table>
<thead>
<tr>
<th>Lab#</th>
<th>Title</th>
<th>Week</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Safety &amp; Introduction</td>
<td>1</td>
<td>Safety and Introductory material</td>
</tr>
<tr>
<td>1</td>
<td>Solar Irradiance</td>
<td>2-3</td>
<td>Photodetectors and thermal detectors, Measuring global, diffuse and direct irradiance</td>
</tr>
<tr>
<td>2</td>
<td>Basic Optical Measurements</td>
<td>4-5</td>
<td>Learn about and use broadband source and diffraction gratings for wavelength-dependent measurements</td>
</tr>
<tr>
<td>3</td>
<td>Optical thin film coatings</td>
<td>6-7</td>
<td>Measure transmission and reflection, calculate absorption and emissivity</td>
</tr>
<tr>
<td>4</td>
<td>Concentrating optics</td>
<td>8</td>
<td>Measure concentration factor and estimate efficiency of concentrating optics and tracking requirements</td>
</tr>
<tr>
<td>5</td>
<td>Photovoltaic cells</td>
<td>9-11</td>
<td>Measure I-V characteristics and single and multi-junction photovoltaic cells, calculate efficiency, measure modules and overall output of a small PV system</td>
</tr>
<tr>
<td>6</td>
<td>Solar thermal systems</td>
<td>12-14</td>
<td>Measure the input and output energy of a solar thermal system (evacuated tube system) and calculate system efficiency, compare to PV system</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

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 Ecosystem Science and Management
3. Course prefix, number and complete title of course: ESSM 310 Forest Tree Improvement and Regeneration
4. Catalog course description (not to exceed 50 words):
Genetic improvement or manipulation of forest trees through breeding or transformation; regeneration of forests
including reproduction, nursery production, stand establishment, natural regeneration, and problems affecting
regeneration.

5. Prerequisite(s): BIOL 101, BIOL 113 or equivalent; junior or senior 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.
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 (CLMDR)
11. This course will be:
a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   BS Forestry
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://exportcontrol.tamu.edu/resources/exports-
    controls-export-controls-basics-for-distance-education).

Prefix  Course #  Title (excluding punctuation)

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<th>LAB</th>
<th>OTHER</th>
<th>SCH</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>EICF Code</th>
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</table>

Approval recommended by:
Dr. Matt Kothmann
Department Head or Program Chair (Type Name & Sign) Date

Dr. Robert W. Knight
Chair, College Review Committee Date

Dr. 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@tamu.edu.
Curricular Services – 07/14
Course title and number  ESSM 310
Term  Spring 2017
Meeting times and location  Lectures: MWF 9:10 – 10:00 AM

Course Description and Prerequisites

Genetic improvement or manipulation of forest trees through breeding or transformation. Regeneration of forests including reproduction, nursery production, stand establishment, natural regeneration, and problems affecting regeneration.

Prerequisites:  BIOL 101, BIOL 113 or equivalent

Learning Outcomes or Course Objectives

1. Understanding Ecological Systems: Describe the basic components of ecological systems and interpret processes at the organism, population, community, ecosystem, landscape, and global levels.
   a. Describe reproductive processes in gymnosperms and angiosperms including seed development, germination and early growth.
   b. Describe how establishment and growth of seedlings are affected by biotic and abiotic factors.
   c. Describe how phenotypic differences between individuals are due to genetic polymorphisms, environments, and the interactions between genotypes and environments.
   d. Describe the production of genetically modified trees (GMOs), their potential benefits, and concerns or potential problems with their use.

7. Management Strategies: Design and/or select management strategies for restoring and sustaining ecosystem goods and services.
   a. Demonstrate how decisions are made regarding species selection and regeneration strategies.
   b. Demonstrate the strategies used in southern tree improvement programs.

Instructor Information

Name  Dr. Carol Loopstra
Telephone number  979-862-2200
Email address  c-loopstra@tamu.edu
Office hours  By appointment
Office location  324 Horticulture Forest Science Building

Textbook and/or Resource Material

Resources are provided through eCampus including PowerPoint presentations and links to other web pages. Optional Textbook: Forest Genetics by TL White, WT Adams, DB Neale
Grading Policies

Midterm exams (2) – 40%
Final - 30%
Quizzes – 10%
Project (student presentation on related topic of interest) – 20%

Project Description - Students will choose a topic from the class that was particularly interesting to them and prepare an oral presentation to provide new information to the class. For example, a student interested in clonal forestry might give a talk about how pines in New Zealand are generated using somatic embryogenesis rather than from seed. A student interested in breeding of hardwoods could discuss oak improvement programs in Europe.

Presentation Grading Criteria
A – Original topic (not covered in lecture) or considerable additional material beyond lectures.
  - Well-organized presentation
  - Ability to answer questions regarding the presentation
  - Proper citation of literature (submit to Dr. Loopstra)
  - Abstract submitted on time
B - Original topic or additional material beyond lectures.
  - Well-organized presentation
  - Ability to answer most questions regarding the presentation
  - Citation of literature
C - Presentation does not include additional material beyond that presented in class
  - Presentation not particularly well organized or prepared
  - Questions regarding the presentation are not answered well.
  - Citation of literature is lacking.
D - Presentation does not include additional material beyond that presented in class
  - The topic is not applicable to the class.
  - Presentation is not well prepared and effort appears to be minimal
  - Can’t answer questions regarding the presentation
  - Citation of literature is lacking.
F - Plagiarism.
  - Lack of a presentation.

Cheating in any form will not be tolerated and will result in a zero for that quiz or exam, plus potentially other disciplinary actions per the TAMU rules and regulations.

Make-ups for missed quizzes and exams will be allowed for authorized, excused absences only. See http://student-rules.tamu.edu/rule07. If possible, students must contact the instructor within 48 hours if an exam is missed. Projects must be presented on the assigned date unless there is an authorized, excused absence in which case, they will presented upon return to class and before the last class.
Grades:
90%+ A
80 – 89 B
70 – 79 C
60 – 69 D
<60 F

Attendance Policy

Attendance and participation in discussions are expected. “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, Calendar of Activities, Major Assignment and Exam Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction, What is a gene?</td>
</tr>
<tr>
<td>2</td>
<td>Genetic Variation in Forest Trees – species, subspecies, provenances, clines, races; causes, effects and use</td>
</tr>
<tr>
<td>3</td>
<td>Inheritance, mitosis, meiosis and linkage in forest trees</td>
</tr>
<tr>
<td>4</td>
<td>Tree reproduction and life cycles</td>
</tr>
<tr>
<td>5</td>
<td>Tree Breeding, Selection (Exam 1)</td>
</tr>
<tr>
<td>6</td>
<td>Mating Designs and Control Pollinations in conifers and angiosperm tree species</td>
</tr>
<tr>
<td>7</td>
<td>Progeny Testing; Seed orchards</td>
</tr>
<tr>
<td>8</td>
<td>Advance Generation Selection, Indirect Selection</td>
</tr>
<tr>
<td>9</td>
<td>Examples: Disease resistance, insect resistance, drought resistance, wood density (Exam 2)</td>
</tr>
<tr>
<td>10</td>
<td>Genetically Modified Trees – methods, benefits, risks and ethics</td>
</tr>
<tr>
<td>11</td>
<td>Nursery production of forest trees</td>
</tr>
<tr>
<td>12</td>
<td>Forest Regeneration</td>
</tr>
<tr>
<td>13</td>
<td>Clonal forestry: Project presentations</td>
</tr>
<tr>
<td>14</td>
<td>Improvement and Regeneration of Tropical Forests</td>
</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 845-1637. 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.”
Texas A&M University
Departmental Request for a New 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 Ecosystem Science and Management
3. Course prefix, number and complete title of course: ESSM 404 Changing Natural Resource Policy
4. Catalog course description (not to exceed 50 words):
   Process through which environmental policies are changed; study theories of social and political change; teams use those theories along with their original research on environmental policy problems to create and implement plans for changing environmental policies in their own communities.

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.
   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. Natural Resources related degrees

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)
    ESSM  404  Changing Natural Res Policy

    Lect.   Lab   Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
    3.00  0.00  0.00  3.00  0302010002  0841  16 - 17  0 0 3 6 3 2

Approval recommended by:

Dr. Kent Koneman
Department Head or Program Chair (Type Name & Sign)  Date

Dr. Robert W. Knight
Chair, College Review Committee  Date

Dr. Kim Dooley
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

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: ESSM 404 Changing Natural Resource Policy (3-0). Credit 3
Term: Fall 2016
Meeting times and Location: Lecture T&R 11:10 p.m.-12:25pm, TBD

Course Description and Prerequisites

Students will study the process through which environmental policies are changed; study theories of social and political change, teams use those theories along with their original research on environmental policy problems to create and implement plans for changing environmental policies in their own communities.

Prerequisites: Junior or senior classification or approval of instructor.

Learning Outcomes

PLO 7: Design management strategies for restoring and sustaining ecosystem goods and services and adaptive management concepts.
PLO 8: Interpret socio-economic and business environments relevant to ecosystem management.
PLO 9: Assess past, present, and future policy options relevant to ecosystems.
PLO 10: Illustrate critical thinking and demonstrate problem solving skills.
PLO 11: Demonstrate an ability to acquire, interpret, and present conclusions orally and in writing.
PLO 12: Demonstrate the ability to work collaboratively in teams and exercise leadership skills on projects.
PLO 13: Demonstrate environmental stewardship and professional and ethical behavior.
PLO 14: Recognize the need for lifelong learning and exhibit the skills necessary to acquire, organize, and reorganize new knowledge.
PLO 15: Demonstrate civic responsibility and global citizenship

Instructor Information

Name: Dr. Forrest Fleischman
Telephone number: 979-862-1071 Office (please note that email is preferred)
Email address: Forrestf@tamu.edu
Office hours: Wednesday & Thursday, 1:30-3:30 pm or by Appointment
Office location: 310 HFSB
Assessment, Grading & Course Structure

During the first week of the class, students will participate in a facilitated brainstorming exercise, in which they will self-select into teams of 4-6 students who will work together for the remainder of the semester to develop and implement a plan to change an environmental policy of their choosing. Students will be guided towards focusing on problems which are tractable within the limits of a semester: Solving global warming is probably not tractable in a semester, but changing the way energy is used on campus may be.

Assessment for undergraduates will be divided up into individually-based assessment and team-based assessment. Individual assessment will focus on weekly reading responses and/or reflections on the learning process, due 3 hours before the week’s first class (12 in total, plus one final reflection for 13). Team assessments will assess the quality of team-produced outputs including (a) a problem statement (b) an action plan, and (c) a report on the action taken. All three of these will require both written & oral presentation. Students will have an opportunity to grade their peers, and this will be used to adjust individual grades (i.e. a portion of the grade for each team assignment will be assigned by peers).

Grading Policies

The points in the course will be assigned as follows for undergraduates

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Number of Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly reading responses/reflections</td>
<td>300</td>
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<tr>
<td>(12 worth 25 points each)</td>
<td></td>
</tr>
<tr>
<td>Written Problem statement</td>
<td>125</td>
</tr>
<tr>
<td>Problem statement presentation</td>
<td>50</td>
</tr>
<tr>
<td>Written Action Plan</td>
<td>175</td>
</tr>
<tr>
<td>Action plan presentation</td>
<td>50</td>
</tr>
<tr>
<td>Written report on action taken</td>
<td>225</td>
</tr>
<tr>
<td>Action taken presentation</td>
<td>50</td>
</tr>
<tr>
<td>Final Reflection</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>1025</td>
</tr>
</tbody>
</table>

Grading Scale:
- 900-1025 = A
- 800-899 = B
- 700-799 = C
- 600-699 = D
- Below 599 = F

Note that there are 25 “extra points” in this grading scale, effectively allowing students to drop one reading response, should they feel confident in gaining the other points in the class. In the unusual case that a student has a grade between the 99 and the 00 (eg. 899.4), conventional rounding rules will be followed (i.e. 899.4 is rounded down to 899, a B, 899.5 will be rounded up to 900, an A)

Attendance and Late Work Policy

Students are expected to attend class regularly, participate actively in in-class activities, including both full-class discussions and small-group project work, and submit assignments on time. Students who do
not attend class regularly, or who attend but do not actively participate, will be through limited participation in group projects & discussions that will contribute to group and individual grades. Prompt completion of work in this class is important. Students who hand in assignments after the time it is due will receive 50% credit for the assignment if completed and handed in within 24 hours of the due date, after which it will receive a zero. I will grant extensions only in extenuating circumstances or University Excused Absences, and only if you contact me before the due date, if possible, for the assignment. Please note that the grading rubric contains 25 “extra points”, effectively allowing students to drop one reading response for the term without penalty. Late work will be accepted in the case of a University Excused Absence with no penalty. There will be no makeup for missed exams, except in the case of an University Excused Absence. 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.

Textbook and/or Resource/Reading Material
All readings apart from the course textbooks will be posted on eCampus. One textbook is required for all students: Graham, B. H. C. (2010). America, the owner's manual: making government work for you. Washington, D.C.: CQ Press. Please note that you may be able to find very inexpensive used copies of this book online.
Graduate Students (those enrolled in ESSM 689), are recommended to obtain Theories of the Policy Process. A new 3rd edition, edited by Paul Sabatier & Chris Weible, came out this summer, and I have not been able to obtain a copy yet, so I am not requiring this text, but I do suggest that it would be very useful for your research papers.

Other Pertinent Course Information
You are allowed to use electronic devices during class time for appropriate purposes (i.e. writing, working with students). Inappropriate use of electronic devices (i.e. for purposes not related to the class) is disrespectful and disruptive. If inappropriate use is frequent, this privilege will be suspended.

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
You are expected to follow the Aggie Honor code. For additional information please visit:
http://aggiehonor.tamu.edu “An Aggie does not lie, cheat, or steal, or tolerate those who do.”
Course Outline

Week 1 (Sept 1-7): Course Introduction, topic brainstorm

Week 2 (Sept 8-14): Overview of approaches to policy change (part 1)

Week 3 (Sept 15-21): Action Research.

Week 4 (Sept 22-28): Overview of approaches (part 2) Problem statement presentations in class.


Week 6 (Oct. 6-12): Political Strategies. 1st draft of graduate student background papers due October 7th.
*Professor Fleischman will likely be out of town at a conference this week. If so, students should use class time to prepare for their strategies, due the following week.

Week 7 (Oct 13-19): Communication & its limits. Strategy presentations in class
Week 8 (Oct 20-26): Litigation. **Strategies due Oct 21.**
- Selections from Houck, Oliver A. (2010). *Taking back Eden eight environmental cases that changed the world.* Washington, DC: Island Press. (Storm King & Trillium)

Week 9 (Oct 27-Nov 2): Environmental social movements.

Week 10 (Nov 3-9): Grassroots social organizing
- Possible guest lecture by Thomas Heberlein on Nov. 4th

Week 11 (Nov 10-16): Nonviolent direct action (1)
- Thoreau, H.D. *Civil Disobedience*

Week 12 (Nov 17-22): Nonviolent Direct Action (2)

Week 13: (Nov 24-30): Thanksgiving break: No class
Week 14: (Dec 1-7): **Presentations of action**
Week 15: LAST DAY OF CLASS: DEC. 9 Action write-ups due. **Final reflections 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 (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
   GEOL 102 Principles of Geology Laboratory
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Laboratory exercise-based introduction to the physical and chemical nature of the Earth and dynamic process that
   shape it; rock and mineral types; topographic and geologic maps, complement to the lecture course GEOL 101, but
   may be taken independently.

5. Prerequisite(s): _____________________________________________________________

   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

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

   all undergraduates

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/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix | Course # | Title (excluding punctuation)
        GEOL 102 | Principles of Geology Lab

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

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: GEOL 102: Principles of Geology Laboratory  
Term: Fall 2014

Meeting times and location:

Course Description and Prerequisites

This is a laboratory exercise-based introduction to the physical and chemical nature of the Earth and dynamic processes that shape it. This class complements the lecture course GEOL 101, but may be taken as a standalone course.

Prerequisites: none

Learning Outcomes

Students will learn how to use and express the above bodies of geological knowledge through individual and group lab exercises that will also develop the following core skills. Students will be assessed on both knowledge and skills in exercises and tests in lab. (For instance, students may be asked to work in groups to identify specific rocks that would record information about the tectonic history of a region, analyze a map showing the distribution of their selected rocks, and then report their findings in writing.)

- Think critically about geological problems by 1) identifying data and areas of uncertainty, 2) distinguishing between data that are relevant and irrelevant to specific problems, and 3) logically testing hypotheses.
- Communicate about geological problems by 1) organizing written and oral discussions in order to emphasize relevant data and provide a logical flow to a well-supported conclusion, and 2) supporting written text with well-chosen diagrams or illustrations.
- Use empirical and quantitative skills to solve geological problems by 1) constructing and analyzing graphs, 2) describing three-dimensional structures or surfaces from two-dimensional representations (e.g. maps or projections), and 3) identifying patterns or trends from historical data.
- Work in teams to solve geological problems by 1) recognizing different points of view, 2) designing and executing plans to test or reconcile opposing hypotheses, and 3) identifying and reporting areas of uncertainty that prevent consensus.

Textbook and/or Resource Material

Busch, Physical Geology Laboratory Manual, Custom edition for Texas A&M

Grading Policies

Grades will be assigned based on the following assessments:

Quizzes: 30%  
Project: 10%  
Exercises: 20%  
Midterm: 20%  
Final: 20%

All grades will be rounded to the nearest tenth of a percent (i.e. 89.95% → 90.0%, 89.94% → 89.9%) and converted to a letter grade as follows: 90.0–100.0 = A, 80.0–89.9 = B, 70.0–79.9 = C, 60.0–69.9 = D, <60.0 = F.
Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aug. 31-Sept. 4</td>
<td>Plate Tectonics I</td>
</tr>
<tr>
<td>2. Sept. 7-Sept. 11</td>
<td>Minerals</td>
</tr>
<tr>
<td>3. Sept. 14-Sept. 18</td>
<td>Igneous rocks</td>
</tr>
<tr>
<td>4. Sept. 21-Sept. 25</td>
<td>Sedimentary rocks</td>
</tr>
<tr>
<td>5. Sept. 28-Oct. 2</td>
<td>Metamorphic rocks;</td>
</tr>
<tr>
<td>6. Oct. 5-Oct. 9</td>
<td>Mid-term exam</td>
</tr>
<tr>
<td>7. Oct. 12-Oct. 16</td>
<td>Topographic maps</td>
</tr>
<tr>
<td>10. Nov. 2-Nov. 6</td>
<td>Geophysics; earthquakes</td>
</tr>
<tr>
<td>11. Nov. 9-Nov. 13</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>12. Nov. 16-Nov. 20</td>
<td>Petroleum Geology</td>
</tr>
<tr>
<td>13. Nov. 23-Nov. 27</td>
<td>Thanksgiving, no lab</td>
</tr>
<tr>
<td>14. Nov. 30-Dec. 4</td>
<td>Final exam</td>
</tr>
</tbody>
</table>

Aggie Honor Code

"An Aggie does not lie, cheat, or steal or tolerate those who do." For more information, see Honor Council Rules and Procedures. http://www.tamu.edu/aggiehonor Academic integrity is an essential force in the academic life of a university. It enhances the quality of education and celebrates the genuine achievements of others. It is, without reservation, a responsibility of all members of the Texas A&M University Community to actively promote academic integrity. Apathy or acquiescence in the presence of academic dishonesty is not a neutral act — failure to confront and deter it will reinforce, perpetuate, and enlarge the scope of such misconduct. http://aggiehonor.tamu.edu

Plagiarism

All materials used in this class 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.”

Disability 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

Absence Policy
This class will follow the University's policy for excused absences. For more information, please see Section 7 of the student rules: http://student-rules.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 Materials Science and Engineering

3. Course prefix, number and complete title of course: MSEN 222, Material Science

4. Catalog course description (not to exceed 50 words):
Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure.

5. Prerequisite(s): CHEM 102, or CHEM 104 and CHEM 114, or CHEM 107 and CHEM 117; PHYS 210

Cross-listed with: MSEN 222

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:
   - required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   - an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

Minor in Materials Science and 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. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>MSEN</th>
<th>222</th>
<th>MATERIAL SCIENCE</th>
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<th>Other</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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Approval recommended by:

Dr. Ibrahim Karaman (Type Name & Sign) 06/01/2015
Department Head or Program Chair

Dr. Andreas Polycarpou (Type Name & Sign) 06/01/2015
Department Head or Program Chair (if cross-listed course)

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.
MEMORANDUM

TO: Office of Curricular Services

THROUGH: Andreas Polycarpou
Head and Meinhard H. Kotzbue '14 Professor
Department of Mechanical Engineering

FROM: Ibrahim Karaman
Head and Chevron Professor
Department of Materials Science and Engineering

SUBJECT: Approval of Cross-listed Courses

We, the undersigned department heads, confirm that we approve the cross-listing of MEEN 222 and the newly formed MSEN 222.

If you have any questions, please feel free to contact me at ikaraman@tamu.edu.
MSEN 222, Materials Science  
3 Credits

Term: Fall 2016

Meeting times and locations: TBD

Instructor Information: Dr. Patrick Shamberger  
Reed McDonald 229, patrick.shamberger@tamu.edu, 979-458-1086

Course (catalog) description: This course is an introduction to the structure-property relationships of solid materials (metals, ceramics, polymers and composites). Topics covered include atomic structure and bonding, crystal structures, crystal structure imperfections, introduction to strength of materials and strengthening mechanisms, diffusion, introduction to phase diagrams, and the thermal, electrical, and magnetic, and optical properties of materials.

Course Prerequisites: CHEM 102, or CHEM 104 and CHEM 114, or CHEM 107 and CHEM 117; PHYS 218.

Course Objectives and Learning Outcomes:
1. To provide sophomore mechanical engineering students with basic knowledge in materials science fundamentals.
2. To relate macroscopic physical and mechanical properties of solid materials including thermal, electrical, magnetic, and optical properties, to microscopic causes (based on fundamental principles), including chemical bonding, crystal structure, and microstructure.
3. To be able to describe the differences in macroscopic physical properties for metals, polymers, ceramics, semiconductors, and composite materials in terms of microscopic structure and causes.

ABET Course Learning Outcomes: At the end of this course, students should be able to:
1. Describe, discuss, and explain what the field of materials science includes.
2. Explain atomic structure.
3. Describe, discuss, and explain bonding.
4. Describe, discuss, and explain crystal structure.
5. Describe, discuss, and explain microstructure.
6. Explain material crystal defects and their significance.
7. Use the isomorphous phase diagram to determine phase compositions and relative amounts of phases present for a given alloy chemical composition.
8. Describe and explain solid state diffusion.
9. Relate macroscopic physical and mechanical properties (tensile and bending) to atomic bonding and microstructure.
10. Describe and explain corrosion in metals, and electrical, thermal properties, magnetic, and optical properties, in terms of microscopic causes.

**Textbook:**

**Additional Material:**
Lecture notes, assignments, solutions, grades, project instructions, and additional material will be available at [http://ecampus.tamu.edu](http://ecampus.tamu.edu). Library resources (including supplementary reading material, materials reference handbooks, standards databases and video links) will be available at: [http://guides.library.tamu.edu/MSEN201](http://guides.library.tamu.edu/MSEN201)

**Assessment and Evaluation:**
Understanding of structure-property relationships will be evaluated through both conceptual questions and numerical problems in which relevant physical quantities will be calculated from fundamental relationships. Homework assignments and quizzes will play important roles in gaining mastery of the course material.

**Course Policies and Procedures:**

*Changes in schedule:*
The instructor reserves the right to change the order and content of lectures as necessary (and to make up for holidays and unscheduled class cancellations). Exam dates may be changed by the instructor, but in each case, at least 1 week notice will be given.

**Grading Scale (Standard Letter Scale):**

- A = 90-100
- B = 80-89.99
- C = 70-79.99
- D = 60-69.99
- F = <60

**Grading Policies:**
- Exam#1 (20 %) {week 5}
- Exam#2 (20 %) {week 11}
- Comprehensive Final (40 %) {end of semester}
- Quizzes (5 %)
- In-Class Participation (5 %)
- Homework (10 %)

Course will not be graded on a curve. Extra credit opportunities may be provided at the lecturer’s discretion.

**Late Work Policy:**
No late work will be accepted, unless in the case of excused attendance. 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).
**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](http://student-rules.tamu.edu/rule07). Please come on time. Silence cell-phones and other electronic distractions.

**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://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](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.
   i. 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)
   ii. 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:
      1. Texas A&M University Explanatory Statement for Absence from Class form available at [http://attendance.tamu.edu](http://attendance.tamu.edu)
      2. 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 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.
Course Outline* (subject to change):

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Chapter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course Introduction, Atomic Structure</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>Atomic Bonding</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Structure of Crystalline Solids</td>
<td>3</td>
</tr>
<tr>
<td>3/4</td>
<td>Structure of Metals, Ceramics, and Polymers</td>
<td>3/4</td>
</tr>
<tr>
<td>4/5</td>
<td>Phase Diagrams</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Exam 1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Imperfections in Solids</td>
<td>5</td>
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<tr>
<td>7</td>
<td>Diffusion</td>
<td>6</td>
</tr>
<tr>
<td>8/9</td>
<td>Mechanical Properties: Metals, Ceramics and Polymers</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>Deformation Strengthening</td>
<td>8</td>
</tr>
<tr>
<td>10/11</td>
<td>Failure: Fracture, Fatigue, Creep</td>
<td>9</td>
</tr>
<tr>
<td>11</td>
<td>Exam 2</td>
<td></td>
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<tr>
<td>12</td>
<td>Electrical Properties</td>
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<td>13</td>
<td>Thermal Properties</td>
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<tr>
<td>14</td>
<td>Magnetic Properties</td>
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<td>14</td>
<td>Optical Properties</td>
<td>19</td>
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<tr>
<td>15</td>
<td>Comprehensive Final Exam</td>
<td></td>
</tr>
</tbody>
</table>

*Subject to changes. Changes will be posted on [http://ecampus.tamu.edu](http://ecampus.tamu.edu)

**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: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu).

**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 Disability Services, in room B118 Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).
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 (MD, JD, PharmD, DPA)
2. Request submitted by (Department or Program Name): Department of Agricultural Economics
3. Course prefix, number and complete title of course: AGE 424 Rural Entrepreneurship

| Change requested | Preprerequisite(s) | Withdrawal (reason) | Cross-listed courses require the signature of both department heads
|-------------------|-------------------|---------------------|--------------------------------------------------
| a. Prerequisite(s) | From: AGE 105 or ECON 202, ACCT 209 or ACCT 210 or ACCT 228 or ACCT 330 or AGE 256 or ACCT 341 or FINC 405, junior or senior classification or approval of instructor | To: AGE 105 or ECON 202, ACCT 209 or ACCT 210 or ACCT 228 or ACCT 330 or AGE 256 or ACCT 341 or FINC 405, junior or senior classification or approval of instructor | Attach a brief supporting statement for changes made to items 4a through 4d. and 10 below.
| b. Cross-list with: |
| c. 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. |
| d. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete items 11a and b. Attach a course syllabus. |
| 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: [ ] Yes  [ ] No
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:

Rural Entrepreneurship
Strategic planning regarding economic feasibility of a single-enterprise rural or metropolitan business venture; emphasis on processes for developing a comprehensive enterprise budget and construction and evaluation of risk management alternatives; exchanges with "real-world" entrepreneurs, financial experts and other management personnel; computer capabilities essential.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

Agribusiness Entrepreneurship - Economic Analysis

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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<td>AGE</td>
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b. Change to:

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<th>Title (excluding punctuation)</th>
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</thead>
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<tr>
<td>AGE</td>
<td>424</td>
<td>AGBU ENTE - ECON ANALYSIS</td>
</tr>
<tr>
<td>Lect.</td>
<td>2.00</td>
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</tbody>
</table>

Approval recommended by:

C. Parr Rosson
Department Head or Program Chair (Type Name & Sign) Date

Robert Knight
Chair, College Review Committee Date
Kim Dooley
Dean of College Date

Tim Scott
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

RECEIVED JUL 22 2015 CURRICULAR SERVICES
SUPPORTING STATEMENT FOR CHANGES MADE 4a THRU 4d AND 10
AGEC 424 RURAL ENTREPRENEURSHIP I to AGE 424 AGribusiness
ENTREPRENEURSHIP –
ECONOMIC ANALYSIS
AND
AGEC 425 RURAL ENTREPRENEURSHIP II to AGE 425 AGribusiness
ENTREPRENEURSHIP –
FINANCIAL ANALYSIS
JULY 2015

Considering the following justifications, the changes I am proposing will help to communicate to
students, not only in the Department of Agricultural Economics, but also throughout the College
of Agriculture and Life Sciences, the availability of courses that will help them evaluate their
potential as an entrepreneur.

1. Diversity of the student population in the Agricultural Economics degree’s Finance
and Real Estate Option a and in the Rural Entrepreneurship Option b has increased
substantially since the creation of these options in the 2004-2005 catalog, from
primarily rural interests to a combination of rural and urban/metropolitan interests,
2. The increase in entrepreneurial interest among students in other College of
Agriculture and Life Sciences majors,
3. Input from former students instrumental in both presenting “professor-for-a-day”
lectures and providing mentoring, counseling, and additional suggestions from
students that have completed AGE 424 and/or AGE 425 who are now engaged in
various businesses across the State of Texas, and
4. Students’ and employers’ recognition of the term Agribusiness over the previous
Rural term.

With the above justifications in mind, these changes will better serve the students both in the
Department of Agricultural Economics and in the College of Agriculture and Life Sciences. In
addition, I do not believe these changes will adversely affect my abilities to teach these courses
as a whole, nor infringe on other Texas A&M University course offerings.

M. Edward Rister, Professor and Associate Head
for the Department of Agricultural Economics,
Instructor for AGE 424 and AGE 425, and the
M. Edward Rister ’74 Chair in Rural Entrepreneurship

Date

NOTES:
a. AGE 424 is required for all students enrolled in the Finance and Real Estate Option
b. AGE 424 and AGE 425 are required for all students enrolled in the Rural
Entrepreneurship Option.
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 Agricultural Economics
3. Course prefix, number and complete title of course: AGEC 425 Rural Entrepreneurship II

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 (FLAT)
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:

   Rural Entrepreneurship II

   Strategic planning regarding rural and metropolitan business ventures; emphasis on processes for developing comprehensive economic and financial prospectuses, including enterprise budgets, risk management planning, cash flow budgeting, net worth statements, income budgets, reconciliation statements, and shock analysis; mentoring exchanges with "real-world" entrepreneurs, financial experts, and other management personnel.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

   Agribusiness Entrepreneurship - Financial Analysis

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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<th>Admin. Unit</th>
<th>HEC Code</th>
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   b. Change to:

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<th>Course #</th>
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<tbody>
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<td>425</td>
<td>AGBU ENTRE - FINC ANALYSIS</td>
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<tr>
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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>
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<td>0140</td>
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</tbody>
</table>

Approval recommended by:

C. Parr Rosson

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 – 08/14

[Stamp: RECEIVED JUL 22, 2015]
SUPPORTING STATEMENT FOR CHANGES MADE 4a THRU 4d AND 10 AGEC 424 RURAL ENTREPRENEURSHIP I to AGEC 424 AGRIBUSINESS ENTREPRENEURSHIP – ECONOMIC ANALYSIS AND AGEC 425 RURAL ENTREPRENEURSHIP II to AGEC 425 AGRIBUSINESS ENTREPRENEURSHIP – FINANCIAL ANALYSIS
JULY 2015

Considering the following justifications, the changes I am proposing will help to communicate to students, not only in the Department of Agricultural Economics, but also throughout the College of Agriculture and Life Sciences, the availability of courses that will help them evaluate their potential as an entrepreneur.

1. Diversity of the student population in the Agricultural Economics degree’s Finance and Real Estate Option
2. The increase in entrepreneurial interest among students in other College of Agriculture and Life Sciences majors;
3. Input from former students instrumental in both presenting “professor-for-a-day” lectures and providing mentoring, counseling, and additional suggestions from students that have completed AGEC 424 and/or AGEC 425 who are now engaged in various businesses across the State of Texas, and
4. Students’ and employers’ recognition of the term Agribusiness over the previous Rural term.

With the above justifications in mind, these changes will better serve the students both in the Department of Agricultural Economics and in the College of Agriculture and Life Sciences. In addition, I do not believe these changes will adversely affect my abilities to teach these courses as a whole, nor infringe on other Texas A&M University course offerings.

M. Edward Rister, Professor and Associate Head for the Department of Agricultural Economics, Instructor for AGEC 424 and AGEC 425, and the M. Edward Rister '74 Chair in Rural Entrepreneurship

7-2-2015

Date

NOTES:

a. AGEC 424 is required for all students enrolled in the Finance and Real Estate Option
b. AGEC 424 and AGEC 425 are required for all students enrolled in the Rural Entrepreneurship Option.
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, DVA)
2. Request submitted by (Department or Program Name): Department of Electrical and Computer Engineering
3. Course prefix, number and complete title of course: ECEN 424 Fundamentals of Networking
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. ______
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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<th>Course #</th>
<th>Title (excluding punctuation)</th>
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b. Change to:

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<th>Course #</th>
<th>Title (excluding punctuation)</th>
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<tr>
<td>ECEN 424</td>
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<tr>
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<td>Lab</td>
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<tr>
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<td>0.00</td>
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</table>

Approval recommended by:

Avdin L. Karaslayan
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

Curricular Services – 08/14

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Course title and number: ECEN 424 Fundamentals of Networking
Term (e.g., Fall 200X): Fall 2016
Meeting times and location: TBD

Course Description and Prerequisites
Foundations of computer networking; layered architecture of the Internet, analysis of protocols, new-age networks such as the Web and social networks; computer network programming and offline analysis of real network data. Prerequisite: Grade of C or better in ECEN 303 or STAT 211; junior or senior classification.

Learning Outcomes
At the end of this course the student should be able to model network systems and program applications that utilize computer networking protocols. The student should also be to analyze and describe the properties of networks in terms of their structure, formation and evolution. Algorithmically, the student should be aware of resource allocation, routing, flow control, reliability, and search.

Instructor Information
Name: Srinivas Shakkottai
Telephone number: (979) 458-0094
Email address: sshakkot@tamu.edu
Office hours: TBD
Office location: WEB 332-C

Textbook and/or Resource Material
Recommended texts:

Grading Policies
Quizzes (15%)
Machine Problems (15%)
Exam 1 (15%)
Exam 2 (20%)
Final Exam (25%)
Project (10%)

Grading scale (will be adjusted according to student performance distribution):
90-100 A, 80-89 B, 70-79 C, 60-69 D, below 59 F.
Attendance and Make-up Policies

Make-ups will be granted only for university-excused absences with proper documentation. Refer to student rule 7 at http://student-rules.tamu.edu/rule07 for all policies regarding excused absences.

Course Topics, Calendar of Activities, Major Assignment Dates

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to Networks and Networking</td>
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<tr>
<td>2</td>
<td>Physical Layer: Channel capacity, Nyquist condition</td>
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<tr>
<td>3</td>
<td>Data Link Layer: parity, coding</td>
</tr>
<tr>
<td>4</td>
<td>Data Link Layer: code construction</td>
</tr>
<tr>
<td>5</td>
<td>MAC Sublayer: Stop and wait, sliding window</td>
</tr>
<tr>
<td></td>
<td>Exam 1</td>
</tr>
<tr>
<td>6</td>
<td>MAC Sublayer: CSMA/802.11</td>
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<td>7</td>
<td>Markov chains and queueing: M/M/1 and M/M/c/c</td>
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<td>8</td>
<td>Network Layer: Routing Algorithms</td>
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<td>9</td>
<td>Network Layer: IP</td>
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<td>10</td>
<td>Transport Layer: Flow control</td>
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<td>11</td>
<td>Transport Layer: Congestion Control</td>
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<td>Graph theory and general networks</td>
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<td>13</td>
<td>Branching processes and random graphs</td>
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<td>14</td>
<td>Power laws and small worlds</td>
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<td>Project Due</td>
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</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

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 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): Geology and Geophysics

3. Course prefix, number and complete title of course: GEOL 101 Principles of Geology

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.

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: Principles of Geology. Physical and chemical nature of the Earth and dynamic processes that shape it, plate tectonics, Earth's interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 104 or 320.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Principles of Geology. Physical and chemical nature of the Earth and dynamic processes that shape it, plate tectonics, Earth's interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 104 or 320.

10. As currently in course inventory:

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Approval recommended by: ___________________________  5-6-15

[Signature]

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  CURRICULUM 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, OD/VMD)
2. Request submitted by (Department or Program Name): Geology and Geophysics
3. Course prefix, number and complete title of course: GEOL 101 Principles of Geology

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 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://vpr.tamu.edu/resources/export-controlbasics-for-distance-education).
8. Complete current course title and current catalog course description: Principles of Geology. Physical and chemical nature of the Earth and dynamic processes that shape it, plate tectonics, Earth's interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 104 or GEOL 320.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Principles of Geology. Physical and chemical nature of the Earth and dynamic processes that shape it, plate tectonics, Earth's interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 104 or GEOL 320.

10. As currently in course inventory:

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<td>12.05</td>
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<td>2</td>
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</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)

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 – 08/14
Course title and number GEOL 101: Principles of Geology
Term Fall 2015

Meeting times and location

Course Description and Prerequisites
Physical and chemical nature of the Earth and dynamic processes that shape it; plate tectonics, Earth's interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 104 or GEOL 320.

Prerequisites: none

Learning Outcomes
Upon successful completion of this course, students will be able to

1. Describe how the scientific method has led to our current understanding of the Earth's structure, processes and evolution.
2. Interpret the origin and distribution of minerals, rocks and geologic resources.
3. Use the theory of plate tectonics to explain the formation and distribution of the Earth's crustal features.
4. Quantify the rates of physical and chemical processes acting on the Earth and how these processes fit into the context of geologic time.
5. Communicate how surface processes are driven by interactions among the Earth's geosphere, hydrosphere, atmosphere and biosphere.
6. Describe the internal structure and dynamics of the Earth.
7. Evaluate human interactions with the Earth, including sustainable development of natural resources and the assessment and mitigation of hazards.

Textbook and/or Resource Material
Tarbuck, Lutgens, and Tasa, Earth, 10th Ed., 2011

Grading Policies
Grades will be assigned based on the following assessments: three tests (total of 30%), lab (30%), and final exam (40%). All grades will be rounded to the nearest tenth of a percent (i.e. 89.95% → 90.0%, 89.94% → 89.9%) and converted to a letter grade as follows: 90.0–100.0 = A, 80.0–89.9 = B, 70.0–79.9 = C, 60.0–69.9 = D, <60.0 = F.
## Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading (Tarbuck page numbers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aug. 31-Sept. 4</td>
<td>Introduction to class and geology; the scientific method; introduction to geologic time; origin of the solar system; Earth’s internal structure and external features; plate tectonics</td>
<td>1–22, 22–29</td>
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<td>2. Sept. 7-Sept. 11</td>
<td>Minerals and the rock cycle</td>
<td>29–34, 87–105</td>
</tr>
<tr>
<td>5. Sept. 28-Oct. 2</td>
<td><strong>Test 1</strong>: sedimentary rocks</td>
<td>214–227</td>
</tr>
<tr>
<td>10. Nov. 2- Nov. 6</td>
<td>Divergent plate boundaries; convergent plate boundaries</td>
<td>381–403</td>
</tr>
<tr>
<td>11. Nov. 9- Nov. 13</td>
<td>Convergent plate boundaries; groundwater</td>
<td>381–403, 461–487</td>
</tr>
<tr>
<td>12. Nov. 16- Nov. 20</td>
<td>Groundwater and streams; deserts and winds</td>
<td>429–459, 515–535</td>
</tr>
<tr>
<td>13. Nov. 23- Nov. 27</td>
<td><strong>Test 3</strong>: Glaciers and glaciations</td>
<td>489–517</td>
</tr>
<tr>
<td>14. Nov. 30-Dec. 4</td>
<td>Geologic record of global climate change; petroleum geology</td>
<td>575–607</td>
</tr>
</tbody>
</table>

### Aggie Honor Code

"An Aggie does not lie, cheat, or steal or tolerate those who do." For more information, see Honor Council Rules and Procedures. [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu) Academic integrity is an essential force in the academic life of a university. It enhances the quality of education and celebrates the genuine achievements of others. It is, without reservation, a responsibility of all members of the Texas A&M University Community to actively promote academic integrity. Apathy or acquiescence in the presence of academic dishonesty is not a neutral act -- failure to confront and deter it will reinforce, perpetuate, and enlarge the scope of such misconduct. [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

### Plagiarism

All materials used in this class 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/](http://student-rules.tamu.edu/), under the section "Scholastic Dishonesty."
Disability 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

Absence Policy
This class will follow the University's policy for excused absences. For more information, please see Section 7 of the student rules: http://student-rules.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 (D.D.S, M.D, J.D, Pharm.D, D.V.M)
2. Request submitted by (Department or Program Name):
   - Department of Materials Science
3. Course prefix, number and complete title of course:
   - MSEN 310, Structure of Materials

Attach a brief supporting statement for changes made to items 1a through 1d and 1f below:

4. Change requested
   a. Prerequisite(s): From: 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 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.
   f. Is this an existing core curriculum course?
      - Yes
      - No

5. If grade type is changing for existing course, indicate the new grade type:
   - Grade
   - S/U
   - P/F (Y/N)

6. 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)

7. Complete current course title and current catalog course description:

8. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

9. Complete course inventory:
   a. As currently in course inventory:
      Prefix | Course # | Title (excluding punctuation)
      MSEN   | 310      | STRUCTURE OF MATERIALS
      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 | Acad. Year | FICE Code | Level
      0     | 0     | 0     | 0   | 0 | 0 | 3 | 6 | 3 | 2

Approval recommended by:
Dr. Ibrahim Karaman
06/01/2015

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@ctec.tamu.edu.
Curricular Services - 08/14
Supporting Statement for item 4a:

Upper-level MSEN course pre-requisites were changed to reflect similar instructional content in “Intro to Materials” Courses taught in different departments (e.g., MEEN 222, CVEN 306, CHEN 313...). This change will make it easier for students coming out of different majors to participate in the MSEN 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 Materials Science
3. Course prefix, number and complete title of course:
MSEN 410, Materials Processing

Attach a brief supporting statement for changes made to items 4a through 10 below.

4. Change requested: MSEN 201 or approval of instructor;
   a. Prerequisite(s): From: 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 (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):

11. a. As currently in course inventory:

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b. Change to:

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Approval recommended by:
Dr. Ibrahim Karman

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

[Signature] 06/05/2015

Dept. 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 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 item 4a:

Upper-level MSEN course pre-requisites were changed to reflect similar instructional content in “Intro to Materials” Courses taught in different departments (e.g., MEEN 222, CVEN 306, CHEN 313...). This change will make it easier for students coming out of different majors to participate in the MSEN 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 (DVM, MD, JD, PharmD, DVMD)

2. Request submitted by (Department or Program Name):
   Department of Materials Science
   MSEN 420, Polymer Science

3. Course prefix, number and complete title of course:
   Attach a brief supporting statement for changes made to items 4a through 10 below.

   4. Change requested: MSEN 201 or approval of instructor;
      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.
      
   Cross-listed courses require the signature of both department heads.

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. As currently in course inventory:

Prefix  Course #  Title (excluding punctuation)
MSEN 420 POLYMER SCIENCE

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Prefix  Course #  Title (excluding punctuation)

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Approval recommended by:
Dr. Ibrahim Karahan

Date

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

Chair, College Review Committee
Date

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

Chair, Academic

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
Supporting Statement for item 4a:

Upper-level MSEN course pre-requisites were changed to reflect similar instrucional content in “Intro to Materials” Courses taught in different departments (e.g., MEEN 222, CVEN 306, CHEN 313...). This change will make it easier for students coming out of different majors to participate in the MSEN 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 Materials Science
3. Course prefix, number and complete title of course:
   MSEN 460, Electronic, Optical, and Magnetic Properties of Materials

4. Change requested: MSEN 201 or approval of instructor;
   junior or senior classification
   
   a. Prerequisite(s): From:  
   b. Withdrawal (reason):
   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://vpx.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  
   MSEN

   Course #  
   460

   Title (excluding punctuation)  
   ELEC OPT MAG MATERIALS

   Lect.  
   3.00

   Lab  
   0.00

   Other  

   SCH  
   3.00

   CIP and Fund Code  
   4010010002

   Admin. Unit  
   1864

   FICE Code  
   0 0 3 6 3 2

   Level  
   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. Ibrahim Karaman

   06/25/2015

   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:
   Chair, GC or UCC  

   Date  

   Effective Date  

   Curricular Services - 06/14

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Supporting Statement for item 4a:

Upper-level MSEN course pre-requisites were changed to reflect similar instructional content in “Intro to Materials” Courses taught in different departments (e.g., MEEN 222, CVEN 306, CHEN 313...). This change will make it easier for students coming out of different majors to participate in the MSEN minor.
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): Petroleum Engineering
2. Course prefix, number and complete title of course: PETE 335 Technical Presentations I
   Attach a brief supporting statement for changes made to items 3a thru 3d and 6 below.
3. 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 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. Complete current course title and current catalog course description:
   PETE 335 Technical Presentations I (1-0) Credit 1
   Catalog course description:
   Preparation of a written technical paper proposal on a subject related to petroleum technology and an oral presentation of the proposal in a formal technical conference format; oral presentations are judged by petroleum industry professionals at the departmental student paper contest held during the same academic year.
6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PETE 335 Technical Presentations I (1-0) Credit 1
   Catalog course description:
   Preparation of a written technical paper proposal on a subject related to petroleum technology and an oral presentation of the proposal in a formal technical conference format.

7. 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>PETE</td>
<td>335</td>
<td>TECH PRESENTATIONS I</td>
</tr>
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<td>Lect.</td>
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<td>SCH</td>
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   b. Change to:
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<th>Prefix</th>
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<td>PETE</td>
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</tr>
</tbody>
</table>

   Approval recommended by:
   A.D. Hill
   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 Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 02/11
# PETE COURSE CHANGE REQUESTS - FALL 2016

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Change Requested</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETE 335</td>
<td>Course description changed to eliminate Student Paper Contest presentation.</td>
<td>PETE 337 course being established so that students can register for their Junior Student Paper Contest presentation to facilitate completion of their degree requirements, and enable the department to better track student completion.</td>
</tr>
<tr>
<td>PETE 355</td>
<td>Addition of CVEN 305 as prerequisite.</td>
<td>Stress/strain relationships in solids as studied in CVEN 305 are directly related to drilling engineering (burst, collapse, buckling, Moore’s diagram for fracturing).</td>
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<tr>
<td>PETE 435</td>
<td>Course description changed to eliminate Student Paper Contest presentation.</td>
<td>PETE 437 course established so that students can register for their Senior Student Paper Contest presentation to facilitate completion of their degree requirements, and enable the department to better track student completion.</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. Course request type:  
   ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, M.D., J.D., Pharm.D., DVM)
2. Request submitted by (Department or Program Name):  
   Harold Vance Department of Petroleum Engineering
3. Course prefix, number and complete title of course:  
   PETE 355-Drilling Engineering

4. Change requested
   Prerequisites: PETE 225, PETE 314, Corequisites: PETE 321, PETE 325  
   a. Prerequisite(s): From:  
      PETE 325  
   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 Expert 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) |
    |--------|----------|-------------------------------|
    | PETE   | 355     | DRILLING ENGINEERING         |
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    | 3.00   | 0.00     | 0.00  | 3.00| 1425010006       | 2210        | 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 | Acad. Year | FICE Code | Level |
    |        |          |       |     |                   |             |           | 0 0 3 6 3 2 |       |

    Approval recommended by:
    
    A. D. Hill  
    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:
    
    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
<table>
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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. Request submitted by (Department or Program Name): Petroleum Engineering

2. Course prefix, number and complete title of course: PETE 435 Technical Presentations II

3. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

4. For informational purposes only, please indicate course number if this course will be stacked: ___________________________

5. Complete current course title and current catalog course description:
   PETE 435 Technical Presentations II (1-0) Credit 1
   Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format; oral presentations are judged by petroleum industry professionals at the departmental student paper contest held during the same academic year.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PETE 435 Technical Presentations II (1-0) Credit 1
   Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format.

7. a. As currently in course inventory:

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<td>TECH PRESENTATIONS II</td>
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</table>

   Approval recommended by:
   A.D. Hill [Signature] 4/9/15
   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 – 02/11
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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 (VHRS, VHPR, VHPR, VHPR)
2. Request submitted by (Department or Program Name): Public Health Studies
3. Course prefix, number and complete title of course: PHLT 301 Orientation to Public Health

Attach a brief supporting statement for changes made to items 1 thru 4, 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:

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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<tr>
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<td>PHLT</td>
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<td>Orientation to Public Health</td>
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b. Change to:

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</table>

Approval recommended by: [Signature]

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

Chair, College Review Committee [Signature] [Date]

Dean of College [Signature] [Date]

Submitted to Coordinating Board by:

Associate Director, Curricular Services [Signature] [Date]

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Instructor Information

Course title and number  PHLT 201 Orientation to Public Health
Term  Fall 2015
Meeting times and location  TBD

Instructor Name(s)

Teaching Assistant(s)
Telephone number
Email address
Office hours
Office location

Course Description

This 1-credit course is designed mainly to help students to become familiar with public health, including aspects such as different disciplines within the profession and local, national and international agencies that have interest in public health, and public health code of ethics. The course consists mainly of attending seminars and lectures specific to public health themes.

Prerequisites

Public Health major; or approval of instructor

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>BSPH Learning Outcomes</th>
<th>Course Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognize major public health issues for populations on a social, community, and global scale</td>
<td>Describe risk factors and modes of transmission for infectious and chronic diseases and how these diseases affect both personal and population health. List the leading causes of mortality, morbidity, and health disparities among local, regional, and global populations</td>
</tr>
<tr>
<td>Describe multidisciplinary and ecological public health issues and concerns</td>
<td>Identify the multiple determinants of health. Mention key events associated with the history of public health that could influence current public health issues</td>
</tr>
<tr>
<td>Discuss lifestyle behaviors that promote individual and population health and well-being</td>
<td>Describe risk factors and modes of transmission for infectious and chronic diseases and how these diseases affect both personal and population health Demonstrate increase in knowledge and skills for addressing lifestyle behavior</td>
</tr>
</tbody>
</table>
| Apply multidisciplinary strategies and interventions in addressing public health issues | Describe the roles of the four main disciplines within public health in safeguarding the population’s health  
Collaborate with others from diverse backgrounds in addressing health disparities and inequities. |
|---|---|
| Apply cultural competencies to public health problems | Discuss the role of gender, race, ethnicity, and other evolving demographics in affecting population health  
Discuss the role of gender, race, ethnicity, and other evolving demographics in designing programs to promote population health  
Discuss ethical issues in public health |
| Apply concepts of planning and management in public health programs | Identify stakeholders who influence health programs, and interventions.  
Explain the roles of the department of health policy and management in addressing structure, financing, and delivery of personal health care and public health services that impact population health. |
| Integrate and apply knowledge, skills, and principles for health improvement | Assess the source and quality of health information and data, as related to individual and community health. |

**Textbook and/or Resource Material**

There is no required textbook for this course.

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

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required Reading</th>
</tr>
</thead>
</table>
| 1    | Course Introduction  
Public health history | Blackboard slide sets and other materials |
| 2    | Public health code of ethics | Blackboard slide sets and other materials |
| 3    | Public health code of ethics continued | Blackboard slide sets and other materials |
| 4    | Health Promotion and Community Health Sciences, and Public Health | **Quiz 1**  
Blackboard slide sets and other materials |
| 5    | Interventions to promote health | Blackboard slide sets and other materials |
| 6    | Environmental Health and Public Health | Blackboard slide sets and other materials |
| 7    | Tackling Environmental Contaminants in Air, Water, or Food | Blackboard slide sets and other materials |
| 8    | Occupational Health and Public Health | **Quiz 2**  
Blackboard slide sets and other materials |
<table>
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<tr>
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<th>Materials</th>
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<td>Worksite Interventions to Reduce Injuries</td>
<td>Blackboard slide sets and other materials</td>
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<tr>
<td>10</td>
<td>Health Policy and Management, and Public Health</td>
<td>Blackboard slide sets and other materials</td>
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<td>11</td>
<td>Enforcing Laws and Regulations to Protect the Health of the Public</td>
<td>Quiz 3</td>
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<td>Blackboard slide sets and other materials</td>
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<td>12</td>
<td>Epidemiology and Biostatistics, and Public Health</td>
<td>Blackboard slide sets and other materials</td>
</tr>
<tr>
<td>13</td>
<td>Investigating Disease Outbreaks</td>
<td>Blackboard slide sets and other materials</td>
</tr>
<tr>
<td>14</td>
<td>Actors in Public Health: Local, National, and Global Stakeholders</td>
<td>Quiz 4</td>
</tr>
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<td></td>
<td>Blackboard slide sets and other materials</td>
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<tr>
<td>15</td>
<td>Final Examination</td>
<td>Final examination due</td>
</tr>
</tbody>
</table>

**Grading Policies**

The graded assignments and the percentages of your grade they will constitute are the following:

- **Quizzes (4)**: 60%
- **Participation**: 10%
- **Final Examination**: 30%

The grading scale will be as follows:

- 90-100% = A
- 80-89% = B
- 70-79% = C
- 60-69% = D
- 0-59% = F

Final grading in this course will be Satisfactory/Unsatisfactory. To receive a grade of Satisfactory, you will need at least overall 70%.

**Assignment Instructions:**

I. **Quizzes**: Four quizzes will be typically given during the semester on previous reading assignments and class presentations. Reading assigned chapters or papers and lecture are an important part of this course. Thus, quizzes on the readings comprise 60% of the final course grade. Quizzes will usually occur at the beginning of class and will be closed book, closed notes for lessons taught earlier. Students who arrive late to class and miss a quiz will earn a 0 for the missed quiz unless they provide university excused absence. Make-up for university-excused absence is discussed below.

II. **Participation**: Attendance will be used to award grades for participation. Make-up for university-excused absence is discussed below. Students will have points deduction if found to be engaging in activities that may be disruptive to their own learning or that of others, including talking on the phone during class hours or using social media to chat during class hours.

III. **Final Examination**: This will either be a take-home examination or in-class examination.
**Attendance and Make-up Policies**

**Attendance:** Attendance is required 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, quiz, examination or participation 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 absences, quizzes and assignments will result in a grade of a 0, for missed participation or 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.

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 athttp://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.

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

Blackboard (Bb Statement)

If this course uses Blackboard (Bb): Within the course Blackboard 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 https://tamhsc.blackboard.com or look for Quick Links on the bottom of the School's homepage. 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). Please note that the Blackboard emails and the SPH emails are the same. If you continue to have trouble accessing the course web site please contact John Lingsweiler in the School’s Office of Academic Assessment and Instructional Technology. John may be reached at (979) 458-3032 or at lingsweiler@tamhsc.edu. You will need to possess the required computing technology to be successful in an online course. All computing problems or other technical issues can be routed to the TAMHSC Help Desk at helpdesk@tamhsc.edu via E-mail, or phoned to 979-862-8029 or 1-800-799-7472 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 Blackboard E-Learning. 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: phuong@SPH.tamhsc.edu for additional information.

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. A plagiarism tutorial can be found in Blackboard. 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.”

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 not a contract between the student and the institution. 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
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.
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): Recreation, Park and Tourism Sciences
3. Course prefix, number and complete title of course: RPTS 474 Administration of Programs and Services for Youth

Attach a brief supporting statement for changes made to items 1a 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://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. As currently in course inventory:

   Prefix  | Course #  | Title (excluding punctuation)  |  
   RPTS    | 474       | MGMT PROG SERV FOR YOUTH

   Lect.  | Lab  | Other  | SCH  | CIP and Fund Code  | Admin. Unit  | FICE Code  | Level  |
   3.00  | 2.00  | 4.00  | 52.090300  | 2502  | 0  | 0  | 3  | 6  | 3  | 2  | 4

   b. Change to:

   Prefix  | Course #  | Title (excluding punctuation)  |  
   RPTS    | 474       | MGMT PROG SERV FOR YOUTH

   Lect.  | Lab  | Other  | SCH  | CIP and Fund Code  | Admin. Unit  | Acad. Year  | FICE Code  | Level  |
   3.00  | 0.00  | 3.00  | 52.090300  | 2502  | 16  | -  | 17  | 0  | 0  | 3  | 6  | 3  | 2  | 4

   Approval recommended by:

   Gary D. Ellis, PhD
   Department Head or Program Chair (Type Name & Sign)  6/1/15
   Chair, College Review Committee  7/21/15
   Dean of College  7/21/15
   Department Head or Program Chair (Type Name & Sign)  6/1/15
   (If cross-listed course)

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services
   Date  7/2/2015

   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  
RPTS 474W: Management of Programs and Services for Youth  
FALL 2016

Instructor: Dr. Jill Martz  
E-mail: jill.martz@ag.tamu.edu  
Phone: 979 - 862-8819  
Office: 432 AGLS  
Office Hours: by appointment  
1:00 – 2:30 T, Th

TA: TBA  
Meeting Times & Location: TBA  
Office Hours: TBA

COURSE OVERVIEW and INTRODUCTION

Course Purpose:  
The realities of the environment in which today's youth serving agencies operate require successful youth development professionals to understand the practical administrative aspects of their organizations. The purpose of this course is to provide students with an understanding of basic principles and strategies for managing and leading youth agencies and organizations.

Course Description:  
This course will focus on the organizational behavior, administration, and management of public, non-profit, and for profit or commercial youth programs and agencies. This course is designed to examine the foundations of management and organizational behavior in the context of youth organizations. Topics will include: organizational culture, strategic planning; capacity building; evaluation; marketing and communication; human resource management; financial resource development; and budgeting and fiscal management. We will also look at key contemporary issues facing the youth development field. While we will spend some time covering basic management concepts, this course is designed to be a step beyond a basic management/supervision course (i.e., RPTS 304).

Prerequisites: RPTS 304, 370 and 371; Junior or Senior Classification

Course Outcomes:

- Identify the operational effects of the culture and environment on youth serving organizations;
- Identify approaches to the organizational structure of youth serving organizations and how they influence effectiveness;
- Demonstrate an understanding of the challenges and opportunities associated with stakeholder management, including working with boards and advisory groups;
- Assess the strategic planning processes used in youth development organizations;
- Recognize and differentiate the relationships between values, vision, and mission statements and their roles in organizational stewardship;
- Identify the concept of organizational capacity and capacity building in youth serving organizations, including initiating, developing, and sustaining partnerships;
- Articulate the rationale for and processes used in organizational and program evaluation;
- Demonstrate an understanding of the role of marketing and public relations in youth serving organizations;
- Describe principles, processes, and techniques used in selecting, organizing, motivating, disciplining, and evaluating personnel to meet the objectives of the organization;
- Identify sources of revenue and methods of acquiring financing to support youth programs;
- Develop budget processes and financial analysis methods used in youth serving organizations;
- Identify and articulate key contemporary issues facing youth serving organizations;
- Demonstrate effective written communication skills;
- Develop a broad understanding of the skills and competencies needed to successfully manage and lead effective youth organizations.
Module Outline:
Each module is outlined below. Outlines include “learning objectives” and “module content.” Students are responsible for reviewing all materials and completing all course work on time.

Method of Instruction:
All course materials will be provided on the eCampus website. http://ecampus.tamu.edu/
- Technical Help for eCampus can be found:
  - Help Desk: http://helpdesk.tamu.edu/ (979-845-8300)
  - eCampus Help Site: http://ecampus.tamu.edu/student-help.php

A variety of methods will be used to meet the needs of different learning styles and enable students to learn the course content. Learning style background and information can be found by visiting the following: http://www.literacyworks.org/ assessment/findyourstrengths.html

Software & Technical Skills:
- Students will need access to the internet and eCampus to download and review course materials.
- All assignments will be submitted online. Students will need to be able to upload and download files (Images, Adobe PDFs, MS Word Documents, and MS PowerPoints).

Required Texts and Readings
- Selected reading from academic journals and other sources available through eCampus

STUDENT RESPONSIBILITY, UNIVERSITY & CLASSROOM INFORMATION

- Student-Instructor Communication:
  - Office visits: I am available to meet with you and encourage you to set up a meeting (in person or by phone). I recommend that you try to schedule an appointment ahead of time as I have offices in two locations. If you have any questions, ideas you wish to explore, problems related to the class, or just need to talk, please contact me.
  - In most cases, office visits are more helpful before a “crisis” than after.
  - Emails: Emails sent Sunday-Thursday will be answered within 24 hours. Emails sent Friday-Saturday will be answered on Monday.
  - Grading: Assignments will generally be graded by the Friday following the deadline. Due to work related travel, there may be an occasional exception.
  - Announcements: Check the link to this class regularly on eCampus. If changes are made to the syllabus/schedule or there are delays in grading, you will be notified on this site.
  - Attendance: This class is designed to provide opportunities for analyzing situations and learning diverse points of view. Therefore, lecture attendance is important and expected. Each week of class will have 2 required lectures with 5 points per lecture awarded for attendance. With the approval of the instructor, missed class practicum discussions/lecture attendance points can be made up by completing the assignment in writing and turning it in within a week of the missed class. Student rule 7 provides guidelines for documenting University-excused absences (http://student-rules.tamu.edu/rule07). When possible, arrange for make-up work prior to an absence.
• **Assignments** Students must submit written assignments on or before due dates. **Late submission of assignments will be reflected in grading.** Exceptions will be made only if arrangements have been made prior to the deadline, or documentation for a University-excused absence is submitted. As an intensive writing course, special emphasis will be put on presenting thoughts in a professional manner and providing student feedback.

• **Papers must be:** typed (12 point font and double-spaced) with the use of proper grammar and formal English composition. Points will be subtracted for inaccurate or informal written language.

• **Review your work,** use spell check and a dictionary or thesaurus as needed. Please follow the *American Psychological Association, APA, 6th edition,* publication manual for references.

• **Diversity** is the strength of our society. In this class, I ask that you maintain an open mind to the differences around you, and I encourage you to respect those differences. Points of view may and should be argued but each speaker/writer is to be respected. I encourage you to acknowledge your diversities by actively engaging with one another. It is especially important that you are tolerant of other students, whose opinions differ from you own, while debating the opinions and remaining respectful of the individuals who hold them.

• **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. I want you to be successful and receive appropriate accommodations but your needs must be articulated by you early in the semester. **If you believe you have a disability requiring an accommodation, please contact Disabilities Services in Cain Hall or call 845-1637.** http://disability.tamu.edu/

  E-Campus (TAMU) Accessibility Statement: http://vpapit.tamu.edu/Accessibility_Statement.php
  TAMU Accountability Statement: https://accountability.tamu.edu/content/accessibility-statement

• **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://www.tamu.edu/aggiehonor/

• **Writing Center** - provides one-to-one consultations on writing or public speaking with a College Reading and Learning Association certified consultant. Two types of consultations are available: online or in-person. Locations: Evans Library or West Campus Library locations or call the Write Line at (979) 845-2160. http://writingcenter.tamu.edu/

• **Student Learning Center (Peer Academic Services)** - provides academic support free of charge to all TAMU students. They offer Supplemental Instruction (SI), tutoring, transfer student services and Independent Study Labs (ISL) for developmental education students. PAS provides training for SI leaders, tutors and peer mentors. http://slc.tamu.edu
GRADING

The course is organized in modules with various assignments for each module. When evaluating, I will look for clarity, quality, completeness and demonstrated professionalism in your work. The following point system and evaluation criteria will be used to determine grades.

<table>
<thead>
<tr>
<th>Participation/Assignments (Total points = 560)</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance/Participation 15 wks @10 = 150</td>
<td>Each module will have an end of module activity that corresponds with the site visit, lecture and/or reading for that topic. Activities will vary from module to module.</td>
</tr>
<tr>
<td>End of Module Assignments 11 @10 = 110</td>
<td>It is important for students to: 1) address the assignment in detail, 2) use at least one reference from the readings to back up an opinion or assessment (i.e. the textbook or other readings).</td>
</tr>
<tr>
<td>OA Part 1 = 50</td>
<td></td>
</tr>
<tr>
<td>OA Part 2 = 50</td>
<td></td>
</tr>
<tr>
<td>OA Final Analysis = 50</td>
<td></td>
</tr>
<tr>
<td>Grant Project = 100</td>
<td></td>
</tr>
<tr>
<td>Final Reflection = 50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percentage of Points</th>
<th>Letter Grade</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100% (504 + points)</td>
<td>A</td>
<td>Assignments must be virtually free from errors in writing, word usage, and sentence structure. The paper will be distinguished by clear and logical thinking and will include evidence of advanced critical thinking skills.</td>
</tr>
<tr>
<td>80-89% (448 - 503 points)</td>
<td>B</td>
<td>Assignments will be organized and written well although there may be writing errors and a partial lack of focus. The paper will demonstrate a good understanding and application of the topic but may not be as clear or logical as an A submission.</td>
</tr>
<tr>
<td>70-79% (392 - 447 points)</td>
<td>C</td>
<td>Assignments in this grade category will show serious difficulty in managing completion of the assignment, weakness in analytical thinking, and/or writing errors that interfere with readability. The paper will illustrate a basic understanding of the topic.</td>
</tr>
<tr>
<td>60-69% (336 - 391 points)</td>
<td>D</td>
<td>Assignments in this category will fail to meet the major requirements of the assignment, including tasks or questions that are ignored, misconstrued or redefined to accommodate what the students' wants or is able to say. Work at this level will include: little or no development of ideas, no clear progression from one section to the next, numerous spelling and grammatical errors, all which give the impression of inferior writing though indications of the students attempt to understand the assignment will be present.</td>
</tr>
<tr>
<td>Less than 60% (335 or fewer points)</td>
<td>F</td>
<td>Assignments in this category will fail to meet minimal standards of acceptability and competence and will illustrate little or no understanding of the topic and/or basic writing skills.</td>
</tr>
</tbody>
</table>

*For Specific Assignment Due Dates – See this Syllabus and the Course Matrix located on eCampus.

*Students must submit written assignments on or before due dates Late assignments will be reflected in the grade. Exceptions will be made only if arrangements have been made in conversation with me prior to the deadline.

*Please note the calendar (& syllabus) are subject to changes.
Any changes to the Syllabus will be announced on the eCampus website or by email.
COURSE SCHEDULE

Lectures/Practicum

Attendance at all lectures and practicums is an expectation for this course with points toward final grades earned for attendance. Failure to attend class and participate in discussions and classroom activities will be reflected in points earned. Total per each week of class = 10 points.

<table>
<thead>
<tr>
<th>Focus/Assignment</th>
<th>Attendance/Assignments Due – Sunday @ 11:55 unless otherwise noted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1, Module 1 Course Syllabus, Outline and Overview</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 2, Module 2 Youth Organizations, Branding</td>
<td>EOM, OA Name due Week 2</td>
</tr>
<tr>
<td>Week 3, Module 3 Assessing Capacity – Part 1</td>
<td>OA Part 1 due Week 3</td>
</tr>
<tr>
<td>Aspirations – Vision, Mission and Goals</td>
<td>McKinsey-Aspirations</td>
</tr>
<tr>
<td>Week 4, Module 4 Leadership and Management Personality Assessment</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 5, Module 5 Stakeholder, Partner, Board Relationships</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 6, Module 6 Assessing Capacity Part 2</td>
<td>OA Part 2 due Week 6</td>
</tr>
<tr>
<td>Strategy/Human Resources</td>
<td>McKinsey-Strategy/Human Resources</td>
</tr>
<tr>
<td>Week 7, Module 7 Program Planning - Logic Models</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 8, Module 8 Program Outcome Evaluation - Strategies</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 9, Module 9 Assessing Capacity Part 3</td>
<td>OA Part 3 due Week 9</td>
</tr>
<tr>
<td>SWOT, Issues, Culture</td>
<td>McKinsey – Culture SWOT, Issues</td>
</tr>
<tr>
<td>Week 10, Module 10 Funding and Grant Writing</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 11, Module 11 Budgeting and Finance</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 12, Module 12 Human Resources – Hiring</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 13, Module 13 Performance Appraisals/Motivation</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 14, Module 14 Crisis and Risk Management</td>
<td>EOM</td>
</tr>
<tr>
<td>Week 15, Module 15 Innovations and Wrap-Up</td>
<td>Grant Project due Week 15</td>
</tr>
<tr>
<td>Study - Exams</td>
<td>Reflection due 1st Day of Finals 100</td>
</tr>
<tr>
<td>Exams</td>
<td>Summary, Reflection</td>
</tr>
</tbody>
</table>

INDIVIDUAL MODULES OUTLINE

Module 1: Introduction - Course Syllabus, Outline and Overview

Upon completing this module students will be able to:
- Identify course expectations, requirements and goals
- Identify writing expectations for the course

Lectures
Welcome and Course Introduction - slides

Readings
- APA Citation Guidelines,
- JYD pgs. 7-19,
- NRC Executive Summary
- Writing Well - slides

Lab Practicum:
Personal Competency Assessment from HBM Table 1.3 Pgs. 9 & 10
YD Organization Personal Assessment

End of Module Assessment:
Find a youth serving organization that you are not familiar with and describe them in 300 words. Include your method of finding them, their branding message and their vision, mission, values and goals in your description.
Module 2: Youth Development Organizations, Branding

Upon completing this module students will be able to:
- Construct elements of youth organizations and their environments
- Explain how program elements help reach organizational goals
- Explain the importance of organizational-level practices and provide examples related to youth development
- Summarize ways in which a youth-serving agency (at the organizational level) can help ensure its programs remain consistent with the framework for positive youth development.

Lecture
- Youth Development Organizations - slides

Readings
- NRC Executive Summary, Ch. 5 & 10
- Robolt, Balzerman, Rana & Korum (2013)
- Roth & Gunn (2003)
- Essential Elements of Youth Development
- JYD - Voluntary Youth Serving Orgs. Pgs. 139 – 154

Lab Practicum
- Youth Agency Environments
- YD and Org. Practices

End of Module Assessment
- Which of the 11 recommendations in the NRC Executive Summary (beginning on page 8 and available through the TAMU libraries) do you consider most salient 12 years after publication? Why?
- Name of local Organizational
- Organizational Analysis proposed site due by email to instructor and approved

Module 3: Assessing Capacity Part 1 - Aspirations

Upon completing this module students will be able to:
- Identify and analyze aspects of organizational capacity and their importance to youth development organizations.
- Assess the capacity of vision, mission, value and goal statements for a specific youth development organization
- Identify elements of high capacity and their importance
- Outline effective strategies directors can implement in organizations to produce positive cultural changes

Lecture
- Building Capacity - slides
- Review of McKinsey Assessment Tool

Readings
- DeVita & Fleming (2001)
- McKinsey Capacity Assessment Tool and Grid.

Lab Practicum
- Culture Change
- Building Capacity

Assignment/ Lecture
- Building Capacity - slides
- Review of McKinsey Assessment Tool

Readings
- DeVita & Fleming (2001)
- McKinsey Capacity Assessment Tool and Grid.

Lab Practicum
- Culture Change
- Building Capacity

Individual Assignment
- OA – Part 1: Aspirations – Describe your youth serving organization. Use the McKinsey capacity assessment tool to analyze the strength of their mission, vision and goals
**Module 4: Leadership and Management**

Upon completing this module students will be able to:
- Identify temperaments and personality traits of self and others
- Identify attributes of a successful CEO
- Recognize and articulate organizational values
- Develop goals based or organizational values as well as mission and vision statements

**Lecture**
Leadership and Management - slides

**Readings**
- HBM – Ch. 1 & 2
- Balsar & Carmin (2009)
- Block & Rosenberg (2002)

**Lab Practicum**
Leadership and Management discussion based on analysis of TED Talks

**End of Module Assessment**
Identify and summarize 3 leadership videos on TED Talks and list 3 or more key points from each. Which one do you feel is most relevant to leadership in the field of youth development?

---

**Module 5: Stakeholder, Partner, Board Relationships**

Upon completing this module students will be able to:
- Identify the challenges and benefits of engaging with diverse stakeholder groups
- Distinguish the difference between stakeholders and partners
- Articulate best practices to effectively engage with stakeholders to enhance organizational processes
- Distinguish between different types and structures of partnerships
- Synthesize how to overcome barriers to ensure that partnerships with other organizations are successful
- Identify common issues regarding stakeholder engagement and discuss strategies for improvement
- Identify and differentiate management and leadership behaviors when working with boards

**Lecture**
Challenges and Opportunities: Engaging Stakeholders and Partners - slides

**Readings**
- HBM Ch. 6

**Lab Practicum**
Partnerships
Stakeholders

**End of Module Assessment**
Partnerships and Stakeholders
### Module 6: Strategic Planning

**Upon completing this module students will be able to:**
- Identify challenges associated with the strategic planning process
- Synthesize the Strengths, Weaknesses, Opportunities, and Threats (SWOT) approach for strategic planning for youth organizations
- Utilize the SWOT approach and analyze its relationship to a youth organization’s mission and strategic planning
- Construct an example of how to put strategic planning into action
- Analyze the Strategy or Human Resources capacity or a youth serving organization

**Lecture**
- Strategic Planning in Youth Organizations - slides
- SWOT Analysis

**Readings**
- HBM Ch. 7

**Lab Practicum**
- Conducting a SWOT Analysis
- Youthcast Strategic Planning

**Individual Assignment**
- OA - Part 2: McKinsey Strategy or Human Resources Analysis. Use the McKinsey assessment tool to review the Strategy or Human Resources capacities of the program selected for your OA and describe your findings in narrative format.

### Module 7: Program Planning – Logic Models

**Upon completing this module students will be able to:**
- Construct a “Logic Model” for an organization or program.
- Relate organizational goals and activities to program outcomes.
- Design a summative evaluation to measure program performance based on desired program outcomes.
- Discuss the relationship between accountability and evaluation.

**Lecture**
- Accountability and Evaluation – slides
- Logic Model - slides

**Readings**
- NRC Ch. 7
- Schwarzlose, Tori. (n.d.) YDI

**Lab Practicum**
- Logic Models
- Evaluation

**End of Module Assessment**
- Complete a logic model for a program offered by your organizational analysis agency or program.
### Module 8: Program Outcome - Evaluation Strategies

**Upon completing this module students will be able to:**
- Articulate the rationale for and processes used in organizational and program evaluation;
- Identify strategies to use in measuring short, intermediate and long term outcomes
- Construct a sample youth development program evaluation plan and determine appropriate instruments

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Evaluation Strategies – slides</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Readings</strong></td>
<td><strong>JYD 82-94</strong></td>
</tr>
<tr>
<td><strong>Lab Practicum</strong></td>
<td>Uses of Formative and Summative Evaluation</td>
</tr>
<tr>
<td></td>
<td>Age appropriate evaluation techniques</td>
</tr>
<tr>
<td><strong>EOM</strong></td>
<td>Design a sample evaluation strategy using formative and summative evaluation questions and age appropriate strategies that could be used by the youth serving organization selected for your analysis</td>
</tr>
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</table>

### Module 9: Organizational Analysis

**Upon completing this module students will be able to:**
- Use feedback from previous assignments to make revisions and complete the analysis of a self-selected youth development organization

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Refer back to earlier class materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Readings</strong></td>
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</tr>
<tr>
<td><strong>Lab Practicum</strong></td>
<td>Work on Organizational Analysis</td>
</tr>
<tr>
<td><strong>Individual Assignment</strong></td>
<td>OA Part 3 - Use previous feedback to revise sections 1 &amp; 2 and complete Part 3 of your Organizational Analysis. For Part 3 - Complete a graphic representation of a SWOT analysis for your youth development organization and describe it in narrative form. Use this analysis to identify 2 issues the organization should address and include strategies for doing so. As your closing section, describe the capacity of the organizational culture according to the McKinsey tool and predict the likelihood of success by your organization in addressing these strategic issues.</td>
</tr>
</tbody>
</table>

### Module 10: Funding and Grant Writing

**Upon completing this module students will be able to:**
- Create a grant proposal
  - Articulate a youth serving organizations’ aspirations and other critical information for grant proposals
  - Advocate organizational needs to funders
  - Create a logic model utilizing previous feedback
  - Design a budget for a grant proposal

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Funding thru Grant Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Readings</strong></td>
<td><strong>NRC Ch. 9</strong></td>
</tr>
<tr>
<td></td>
<td><strong>HBM Ch. 12 (pp. 286-298)</strong></td>
</tr>
<tr>
<td></td>
<td>Proposal Writing Short Course and Proposal Budgeting Basics at foundationcenter.org.</td>
</tr>
<tr>
<td><strong>Individual Assignment</strong></td>
<td>Begin work on grant assignment</td>
</tr>
</tbody>
</table>
## Module 11: Budgeting and Finance

**Upon completing this module students will be able to:**
- Identify the benefits of fiscal management and accountability for a youth serving organization
- Create line-item budgets and determine actual program costs
- Develop ways to increase an organization’s revenue for the long term
- Determine the benefits of different types of revenue for youth programs.
- Identify and analyze revenues and expenses from an annual youth organization budget report

**Lecture**
- Budgeting - slides
- Fund Raising - slides

**Readings**
- BGC Annual Report
- HBM Ch. 13

**Lab Practicum**
- Financial Management
- Resources

**End of Module Assessment:**
- Budgeting

## Module 12: Human Resources - Hiring

**Upon completing this module students will be able to:**
- Examine the hiring process and associated challenges and opportunities.
- Strategize how to organize and conduct the hiring process.
- Create a position description
- Identify aspects of hiring models and staff development and their use within an organization.

**Lecture**
- Human Resource Management - slides

**Readings**
- HBM Ch. 10 & 11
- Salas, E. & Cannon-Bowers, J. A..

**Lab Practicum**
- Screening candidates and conducting interviews
- Making the right selections

**End of Module Assessment:**
- Recruitment, Selection
### Module 13: Human Resources – Performance Appraisals/Motivation

**Upon completing this module students will be able to**
- Examine and explain the importance of paid and volunteer staff training.
- Examine policies/ best practices regarding staff and volunteer training and performance evaluation to improve administrative processes and strategies.

**Lecture**
- ISOTURE Volunteer Management - slides

**Readings**
- JYD 126-128
- ACA – Who’s on the Bus?

**Lab Practicum**
- Training, Staff Motivation, Discipline and Rewards
- Managing Volunteers

**End of Module Assessment:**
Based on the principles discussed in the past 2 weeks, describe in 300-500 words what you think is important in evaluating and motivating staff. If you were in a position to do so, how would you go about operationalizing these things?

### Module 14: Risk Management and Public Relations

**Upon completing this module students will be able to:**
- Strategize various risk and crisis management techniques to assess and address risks within youth organizations
- Examine risk management situations and determine the issues and how to prevent such an event in the future.

**Lecture**
- Risk Management – slides
- ADA, Title IX and Child Protection - slides

**Readings**
- HBM Ch. 4
- ACA Crisis Response Trng.
- ACA Risk Management
- Nat’l 4-H Hqtrs. - Best Practices

**Lab Practicum**
- Risk Mgmt. Assessment
- Crisis Management

**End of Module Assessment:**
- Crisis Management Strategies

### Module 15: Innovations and Wrap-Up

**Upon completing this module students will be able to:**
- Identify and articulate key contemporary issues facing youth serving organizations;
- Develop a broad understanding of the skills and competencies needed to successfully manage and lead effective youth organizations.

**Lecture**
- New Directions in Youth Development - slides

**Readings**
- JYD 95-108 and 155-166
- Zeldin, Camino & Mock (2005)
- Zeldin, Christens & Powers (2012)

**Individual Assignment:**
- Final Grant Writing Project Due last day of class
- Summary/Self-Reflection Due 1st Day of Finals

**Additional Information** — download selected readings (see above) through eCampus
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 ☐ Gradu ate ☐ First Professional (D.O., M.D., J.D., Ph.D., D.V.M.)
2. Request submitted by (Department or Program Name): Wildlife and Fisheries Science Department
3. Course prefix, number and complete title of course: WFSC 406: Conservation Biology and Wildlife Habitat Management

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: WFSC 636

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-basic-for-distance-education).

9. Complete current course title and current catalog course description: Conservation Biology and Wildlife Habitat Management

   Designed to acquaint the student with major land use practices on lands that produce wildlife, how these influence wildlife production and alterations or manipulations of habitat used to achieve specific wildlife management goals.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Wildlife Habitat Management

11. a. As currently in course inventory:

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<th>Prefix</th>
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<tbody>
<tr>
<td>WFSC</td>
<td>406</td>
<td>Conservation Biology &amp; Wildlife Habitat Management</td>
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<table>
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b. Change to:

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<th>Title (excluding punctuation)</th>
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<tr>
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<td>WILDLIFE HABITAT MANAGEMENT</td>
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</table>

Approval recommended by: ________________________ (as Chair, College Review Committee)
Date: 6/11/15

Department Head or Program Chair (Type Name & Sign) ________________________
Date: 6/11/15

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

Submitted to Coordinating Board by: ________________________
Date: 6/11/15

Associate Director, Curricular Services
Date: 6/11/15

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services • 08/14
The reason we are changing the title is because the course is stacked with WFSC 636, which is called “wildlife habitat management”. Basic concepts of conservation biology are covered in both courses and in the case of the undergraduate course, redundant in the course title. Wildlife habitat management typically includes basic principles of conservation biology.
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT
BS IN ECOLOGICAL RESTORATION
Texas A&M University
Request for a Change in Curriculum

1. Request change for:  
   ☒ Degree Program  □ Minor  □ Certificate

2. Request submitted by (Department or Program Name):  
   Ecosystem Science and Management

3. Program Designation and Name  
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   B.S. in Ecological Restoration

4. Brief description of change:  
   Changed the Ecosystem Science and Management Core to decrease required hours to allow more flexibility in the Major Core Courses

5. Rationale for change:  
   The changes will allow the students to take more courses that will support their major and desired job.

---

Use the checkboxes below to make sure that all information is included.

   ☒ 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?  
   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  
   ☒ Yes  □ No

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

Dr. Robert Knight  
Chair, College Review Committee  
Date

Dr. Kim Dooley  
Dean of College  
Date

Dr. 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 – 07/12

RECEIVED JUL 22 2015
CURRICULAR SERVICES
Proposed Curriculum in
Ecological Restoration

Catalog 16-17

University Core Curriculum

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGEC 105 Introduction to Agricultural Economics</td>
<td>(3-0)</td>
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<tr>
<td>BIOL 101 Botany</td>
<td>(3-3)</td>
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</table>
| or
| BIOL 113 Essentials of Biology                                       |         |
| HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Prac. Lab |         |
| CHEM 101 and 111 Fundamentals of Chemistry I and Lab                 | (3-3)   |
| RENR 215 Fundamentals of Ecology Lab                                 | (0-3)   |
| American History electives                                           |         |
| Communication electives                                              |         |
| Creative Arts elective                                               |         |
| Government/Political Science electives                               |         |
| Language, Philosophy and Culture elective                            |         |
| Mathematics electives (MATH prefix required)                         |         |

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Ecosystem Science and Management

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AGEC 350 Environmental and Natural Resource Economics</td>
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<tr>
<td>AGEC 325 Principles of Farm and Ranch Management</td>
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<tr>
<td>ESSM 201 Exploring Ecosystem Science and Management</td>
<td>(1-0)</td>
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<tr>
<td>ESSM 301 Wildland Watershed Management</td>
<td>(2-2)</td>
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<tr>
<td>ESSM 302 Wildland Plants of North America</td>
<td>(2-2)</td>
</tr>
<tr>
<td>ESSM 306 Plant Functional Ecology and Adaptation</td>
<td>(3-0)</td>
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</table>
| or
| ESSM 311 Biogeochemistry and Global Change                           | (3-0)   |
| ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems       | (2-2)   |
| ESSM 318 Coupled Social and Ecological Systems                       | (3-0)   |
| ESSM 320 Ecosystem Restoration and Management                        | (3-0)   |
| ESSM 351 Geographic Information Systems and Resource Management      | (2-2)   |
| ESSM 481 Senior Seminar                                              | (1-0)   |
| RENR 205 Fundamentals of Ecology                                     | (3-0)   |
| SCSC 301 Soil Science                                                | (3-2)   |

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Ecological Restoration
Core Courses

Plant Taxonomy—Choose one of the following:
— ESSM 203 Forest Trees of North America

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ESSM 303 Agrostology</td>
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<td>ESSM 304 Rangeland Plant Taxonomy</td>
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<td>ESSM 406 Natural Resources Policy</td>
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<td>ESSM 416 Fire Ecology &amp; Natural Resource Management</td>
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<td>ESSM 420 Ecological Restoration of Wetland and Riparian Systems</td>
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<td>Emphasis Area electives</td>
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</tr>
<tr>
<td>Free electives</td>
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</tbody>
</table>

Total hours for the Ecological Restoration Degree: 120

NOTES:
1 To be selected in consultation with an advisor.
2 The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.
3 Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
Proposed Curriculum in
Ecological Restoration

Catalog 16-17

University Core Curriculum

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<td>Creative Arts elective</td>
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<tr>
<td>Language, Philosophy and Culture elective</td>
<td>3</td>
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<td>Mathematics electives (MATH prefix required)</td>
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42

Ecosystem Science and Management

Core Courses

<table>
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Ecological Restoration

Core Courses

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**Total hours for the Ecological Restoration Degree** 120

**NOTES:**

1. To be selected in consultation with an advisor.
2. The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.
3. Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
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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<td>Other Course Information</td>
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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>
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<td>H</td>
<td>RENR 205</td>
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<td>B</td>
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or ESSM 311

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption
Select from ESSM 406 or RENR 470 the Writing attribute (UWRT) may be used to satisfy this requirement.

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| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

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<th>Area: Supporting Coursework (12.000 credits) - Not Met</th>
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unofficial evaluation

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| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

| Area: Communication (6.000 credits) - Not Met |

### Mathematics (6.000 credits) - Not Met

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<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
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Select any course with the Mathematics attribute [KMTH].

### Life and Physical Sciences (9.000 credits) - Not Met

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<td>CHEM</td>
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<td>B</td>
<td>BIOL 101</td>
<td>or BIOL 111</td>
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Select any course with the Life, Physical Sciences attribute [KOPH].

### Language, Philosophy & Culture (3.000 credits) - Not Met

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<th>Low</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>Lang</td>
<td>Phil, Culture</td>
<td>Rqmt 3hrs</td>
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Select any course with the Language, Philosophy and Culture attribute [KLPC].
unofficial evaluation

**Area:** Creative Arts (3.000 credits) - Not Met

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
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<th>Credits</th>
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<td>A.</td>
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<td>Creative Arts</td>
<td>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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<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
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<tr>
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<td>AGEC 105</td>
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**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.

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
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<tr>
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<td></td>
<td>American History</td>
<td>Reqmt 6hrs</td>
<td>Select any course with the [KHIS] attribute.</td>
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<td>AND B.</td>
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<td></td>
<td>Political Science</td>
<td>Reqmt 6hrs</td>
<td>Take POLS 206 and POLS 207.</td>
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**Total Credits and GPA** 0.000 .00

unofficial evaluation

**Area:** General Electives (3.000 credits) - Not Met

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<th>Condition</th>
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<th>Attribute</th>
<th>Low High</th>
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<th>Required Courses</th>
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<td>General Electives</td>
<td>9hrs</td>
<td>Select from any 100-499 course not used elsewhere.</td>
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unofficial evaluation

<table>
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<th>Area: Work Not Applied - Met</th>
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<td>Description: See advisor for acceptable substitutions.</td>
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<th>Area: University Writing Requirement - Not Met</th>
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<th>Area: Int'l &amp; Cult Diversity - Not Met</th>
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unofficial evaluation

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<th>Area: Foreign Language - Not Met</th>
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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption
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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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**unofficial evaluation**

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<th>Area :</th>
<th>Residence Requirement - Not Met</th>
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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>Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source</th>
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<td>A. Residence - Major 12hrs</td>
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<td>Includes ESSM 300-499.</td>
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<td>AND B. Residence 300-499 24hrs</td>
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<td>Select 24hrs from any 300-400 level course at Texas A&amp;M University.</td>
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**unofficial evaluation**

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<th>GPR-Major - Not Met</th>
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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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<td>A. Major GPR 47+hrs</td>
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**unofficial evaluation**

Back to Display Options

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7/6/2015
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT
BS IN RANGELAND ECOLOGY AND MANAGEMENT
RANCH MANAGEMENT OPTION
Texas A&M University
Request for a Change in Curriculum

1. Request change for: ☑ Degree Program
   ☐ Minor
   ☐ Certificate

2. Request submitted by (Department or Program Name):
   Ecosystem Science and Management

3. Program Designation and Name:
   B.S. in Rangeland Ecology and Management - Ranch Management Option
   (e.g., B.A. in History, Minor in History, Certificate in European Union):

4. Brief description of change: Changed the Ecosystem Science and Management Core to decrease required hours to allow more flexibility in the Major Core Courses.

5. Rationale for change: The changes will allow the students to take more courses that will support their major and desired job.

Use the checkboxes below to make sure that all information is included.

6. 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

   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. Mort Kothmann
Department Head or Program Chair (Type, Name & Sign) Date 7/20/15
Dr. Robert Knight
Chair, College Review Committee Date 7/18/15

Dr. Kim Dooley
Dean of College Date
Dr. 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 – 07/12

RECEIVED JUL 22 2015
**Proposed Curriculum in Rangeland Ecology and Management**

**Ranch Management Option**

**Catalog 16-17**

**University Core Curriculum**

<table>
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<tr>
<td>BIOL 101 Botany</td>
<td>(3-3) 4</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>BIOL 113 Essentials of Biology</td>
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<tr>
<td>HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Prac. Lab</td>
<td>(3-3) 4</td>
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<tr>
<td>CHEM 101 and 111 Fundamentals of Chemistry I and Lab</td>
<td>(3-3) 4</td>
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<td>RENR 215 Fundamentals of Ecology Lab</td>
<td>(0-3) 1</td>
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<td>American History electives</td>
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<td>Communication electives</td>
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<td>Creative Arts elective</td>
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<td>Government/Political Science electives</td>
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<tr>
<td>Language, Philosophy and Culture elective</td>
<td>3</td>
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<td>Mathematics electives (MATH prefix required)</td>
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**Ecosystem Science and Management**

**Core Courses**

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<td>ESSM 201 Exploring Ecosystem Science and Management</td>
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<tr>
<td>ESSM 301 Wildland Watershed Management</td>
<td>(2-2) 3</td>
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<td>ESSM 306 Plant Functional Ecology and Adaptation</td>
<td>(3-0) 3</td>
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<td>or</td>
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<td>ESSM 311 Biogeochemistry and Global Change</td>
<td>(3-0) 3</td>
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<tr>
<td>ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems</td>
<td>(2-2) 3</td>
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<tr>
<td>ESSM 351 Geographic Information Systems and Resource Management</td>
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<td>ESSM 481 Senior Seminar</td>
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<td>RENR 205 Fundamentals of Ecology</td>
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<td>SCSC 301 Soil Science</td>
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**Rangeland Ecology and Management**

**Core Courses**

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<th>Course</th>
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<tbody>
<tr>
<td>AGEC 325 Principles of Farm and Ranch Management</td>
<td>(2-2) 3</td>
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<td>ESSM 302 Wildland Plants of North America</td>
<td>(2-2) 3</td>
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<tr>
<td>ESSM 303 Agrostology</td>
<td>(1-6) 3</td>
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<td>ESSM 304 Rangeland Plant Taxonomy</td>
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<td>ESSM 314 Principles of Rangeland Ecology and Management Around the World</td>
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ESSM 315 Rangeland Inventory and Monitoring ...................................................... (0-2) 1
ESSM 316 Range Ecology ...................................................................................... (2-2) 3
ESSM 317 Vegetation Management ...................................................................... (3-0) 3
ESSM 415 Range Analysis and Management Planning ......................................... (3-2) 4
ANSC 107 General Animal Science ..................................................................... (3-0) 3
ANSC 108 General Animal Science Laboratory .................................................. (0-2) 1
ANSC 302 Beef Cattle Production ....................................................................... (3-0) 3
ANSC 320 Animal Nutrition and Feeding ............................................................. (3-0) 3
Choose one:
AGEC 350 Environmental and Natural Resource Economics ......................... (3-0) 3
ESSM 318 Coupled Social and Ecological Systems ........................................... (3-0) 3
ESSM 404 Changing Natural Resource Policy .................................................... (3-0) 3
ESSM 406 Natural Resources Policy .................................................................. (3-0) 3
RENR 470 Environmental Impact Assessment .................................................. (3-0) 3
Emphasis Area electives 1 .................................................................................. 15
Electives ............................................................................................................. 6

Total hours for the Rangeland Ecology and Management Degree .......................... 120

NOTES:
1 To be selected in consultation with an advisor.
2 The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.
3 Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
Proposed Curriculum in
Rangeland Ecology and Management

Ranch Management Option

Catalog 16-17

University Core Curriculum

Required Courses

AGEC 105 Introduction to Agricultural Economics .................................................. (3-0) 3
BIOL 101 Botany ........................................................................................................ (3-3) 4
or
BIOL 113 Essentials of Biology

CHEM 101 and 111 Fundamentals of Chemistry I and Lab ........................................ (3-3) 4
RENR 215 Fundamentals of Ecology Lab .................................................................... (0-3) 1
American History electives 3 .................................................................................... 6
Communication electives 3 ....................................................................................... 6
Creative Arts elective 3 ............................................................................................ 3
Government/Political Science electives 3, 4 ............................................................... 6
Language, Philosophy and Culture elective 3 ............................................................ 3
Mathematics electives (MATH prefix required) ........................................................... 6

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Ecosystem Science and Management

Core Courses

AGEC 350 Environmental and Natural Resource Economics 4 .................................. (3-0) 3

—or

AGEC 325 Principles of Farm and Ranch Management

ESSM 201 Exploring Ecosystem Science and Management ....................................... (1-0) 1
ESSM 301 Wildland Watershed Management ............................................................. (2-2) 3
ESSM 302 Wildland Plants of North America ............................................................ (2-2) 3
ESSM 306 Plant Functional Ecology and Adaptation ............................................... (3-0) 3

—or

ESSM 311 Biogeochemistry and Global Change ....................................................... (3-0)
ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems ....................... (2-2) 3
ESSM 318 Coupled Social and Ecological Systems .................................................... (3-0) 3
ESSM 320 Ecosystem Restoration and Management ............................................... (3-0) 3
ESSM 351 Geographic Information Systems and Resource Management ............... (2-2) 3
ESSM 481 Senior Seminar ....................................................................................... (1-0) 1
RENR 205 Fundamentals of Ecology ....................................................................... (3-0) 3
SCSC 301 Soil Science ............................................................................................ (3-2) 4

21
AGEC 325 Principles of Farm and Ranch Management \(^1\) .................................................. (2-2) 3
ESSM 302 Wildland Plants of North America ................................................................. (2-2) 3
ESSM 303 Agrostology .................................................................................................... (1-6) 3
or
ESSM 304 Rangeland Plant Taxonomy ........................................................................... (2-6)
ESSM 314 Principles of Rangeland Ecology and Management Around the World ........... (3-0) 3
ESSM 315 Rangeland Inventory and Monitoring ............................................................. (0-2) 1
ESSM 316 Range Ecology ............................................................................................... (2-2) 3
ESSM 317 Vegetation Management ................................................................................. (3-0) 3
ESSM 415 Range Analysis and Management Planning \(^1\) ................................................ (3-2) 4
or
RENR 410 Ecosystem Management .............................................................................. (3-2)
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ANSC 108 General Animal Science Laboratory ............................................................... (0-2) 1
ANSC 302 Beef Cattle Production .................................................................................. (3-0) 3
ANSC 320 Animal Nutrition and Feeding ....................................................................... (3-0) 3
Choose one:
AGEC 350 Environmental and Natural Resource Economics ........................................ (3-0) 3
ESSM 318 Coupled Social and Ecological Systems ......................................................... (3-0) 3
ESSM 404 Changing Natural Resource Policy ............................................................... (3-0) 3
ESSM 406 Natural Resources Policy .............................................................................. (3-0) 3
RENR 470 Environmental Impact Assessment .............................................................. (3-0) 3
Emphasis Area electives \(^2\) ............................................................................................. 15
Electives ....................................................................................................................... 6

Total hours for the Rangeland Ecology and Management Degree .............................. 120

NOTES:

\(^1\) Students must take this course for the Ranch Management Option.

\(^2\) To be selected in consultation with an advisor.

\(^3\) The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

\(^4\) Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
### 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 RLEM-Ranch Mgmt  
**Campus:** College Station  
**College:** Agriculture & Life Sciences  
**Degree:** Bachelor of Science  
**Level:** Undergraduate  
**Majors:** Rangeland Ecology & Management  
**Departments:** Ecosystem Science & Mgmt  

**Catalog Term:** Fall 2014 - College Station  
**Evaluation Term:** Summer 2015 - College Station  
**Expected Graduation Date:**  
**Request Number:**  
**Results as of:** Jul 06, 2015  
**Concentrations:**

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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

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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption
### Detail Requirements

#### Unofficial Evaluation

**Area: Supporting Coursework (40.000 credits) - Not Met**

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**Area: Emphasis Area Electives (11.000 credits) - Not Met**

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Total Credits and GPA: 0.000 0.00

Unofficial Evaluation

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7/6/2015
**Area: Communication (6.000 credits) - Not Met**

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unofficial evaluation

**Area: Mathematics (6.000 credits) - Not Met**

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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: Language, Philosophy & Culture (3.000 credits) - Not Met**

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<td>A. Writing Requirement Two courses required. Only sections of ESSM 315, 405, 406, 415, 430, 462, 491; RENR 410 the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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<th>Int'l &amp; Cult Diversity - Not Met</th>
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<tbody>
<tr>
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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. Int'l &amp; Cultural Diversity 6hr 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>

unofficial evaluation

<table>
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<tr>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source</td>
</tr>
</tbody>
</table>
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.

unofficial evaluation

Area: Residence Requirement (36.000 credits) - Not Met

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<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
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<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>A.</td>
<td>Residence - Major 12hrs</td>
<td>Select from ESSM 300-499.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Residence 300-499 24hrs</td>
<td>Select from any 300-400 level course at Texas A&amp;M.</td>
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unofficial evaluation

Area: GPR-Major - Not Met

Description: A minimum GPR of 2.000 is required in all major field of studies courses.

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<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
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<td>No</td>
<td>AND</td>
<td>A.</td>
<td>Major GPR 31+hrs</td>
<td>Includes ESSM 100-499; RENR 205, 215, 410.</td>
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unofficial evaluation

Back to Display Options

Print
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT
BS IN RANGELAND ECOLOGY AND MANAGEMENT
RANGELAND RESOURCES OPTION
Texas A&M University
Request for a Change in Curriculum

1. Request change for: ☒Degree Program ☐Minor ☐Certificate
Ecosystem Science and Management

2. Request submitted by (Department or Program Name):
Program Designation and Name
(eg. B.A. in History, Minor in History, Certificate in European Union):
B.S. in Rangeland Ecology and Management - Rangeland Resources Option

3. Brief description of change:
Changed the Ecosystem Science and Management Core to decrease required hours to allow more flexibility in the Major Core Courses

4. Rationale for change:
The changes will allow the students to take more courses that will support their major and desired job.

Use the checkboxes below to make sure that all information is included.

6. a. Proposed curriculum attached. ☒Yes ☐No

6. b. Current catalog curriculum with handwritten edits attached. ☒Yes ☐No

6. 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

7. b. If yes, degree program hours will change from: _________ to: _________

7. c. If yes, is the Texas Higher Education Coordinating Board form attached? ☐Yes ☒No

http://www.thecb.state.tx.us/index.cfm?objectid=A0F9FDFA-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. Mort Kaffmann
Department Head or Program Chair (Type Name & Sign)
Date 7/20/15

Dr. Kim Dooley
Dean of College
Date 7/21/15

Dr. Robert Knight
Chair, College Review Committee
Date 7/15/15

Dr. Tim Scott
Chair, GC or UCC
Date 7/21/15

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-stamm@tamu.edu.
Curricular Services – 07/12
Proposed Curriculum in
Rangeland Ecology and Management

Rangeland Resources Option

Catalog 16-17

University Core Curriculum

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGEC 105 Introduction to Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101 Botany</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 113 Essentials of Biology</td>
<td></td>
</tr>
<tr>
<td>HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Pract. Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 101 and 111 Fundamentals of Chemistry I and Lab</td>
<td>4</td>
</tr>
<tr>
<td>RENR 215 Fundamentals of Ecology Lab</td>
<td>1</td>
</tr>
<tr>
<td>American History electives</td>
<td>6</td>
</tr>
<tr>
<td>Communication electives</td>
<td>6</td>
</tr>
<tr>
<td>Creative Arts elective</td>
<td>3</td>
</tr>
<tr>
<td>Government/Political Science electives</td>
<td>6</td>
</tr>
<tr>
<td>Language, Philosophy and Culture elective</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics electives (MATH prefix required)</td>
<td>6</td>
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Ecosystem Science and Management

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGEC 350 Environmental and Natural Resource Economics</td>
<td>3</td>
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or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>AGEC 325 Principles of Farm and Ranch Management</td>
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<tr>
<td>ESSM 201 Exploring Ecosystem Science and Management</td>
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</tr>
<tr>
<td>ESSM 301 Wildland Watershed Management</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 302 Wildland Plants of North America</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 306 Plant Functional Ecology and Adaptation</td>
<td>3</td>
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</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ESSM 311 Biogeochemistry and Global Change</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 318 Coupled Social and Ecological Systems</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 320 Ecosystem Restoration and Management</td>
<td>3</td>
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<tr>
<td>ESSM 351 Geographic Information Systems and Resource Management</td>
<td>3</td>
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<tr>
<td>ESSM 481 Senior Seminar</td>
<td>1</td>
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<tr>
<td>RENR 205 Fundamentals of Ecology</td>
<td>3</td>
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<tr>
<td>SCSC 301 Soil Science</td>
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21
## Rangeland Ecology and Management
### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ESSM 302</td>
<td>Wildland Plants of North America</td>
<td>(2-2)</td>
</tr>
<tr>
<td>ESSM 303</td>
<td>Agrostology</td>
<td>(1-6)</td>
</tr>
<tr>
<td>or</td>
<td>ESSM 304 Rangeland Plant Taxonomy</td>
<td>(2-6)</td>
</tr>
<tr>
<td>ESSM 314</td>
<td>Principles of Rangeland Ecology and Management Around the World</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 315</td>
<td>Rangeland Inventory and Monitoring</td>
<td>(0-2)</td>
</tr>
<tr>
<td>ESSM 316</td>
<td>Range Ecology</td>
<td>(2-2)</td>
</tr>
<tr>
<td>ESSM 317</td>
<td>Vegetation Management</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 415</td>
<td>Range Analysis and Management Planning ¹</td>
<td>(3-2)</td>
</tr>
<tr>
<td>or</td>
<td>RENR 410 Ecosystem Management</td>
<td></td>
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</table>

**Choose two:**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AGEC 325</td>
<td>Principles of Farm and Ranch Management</td>
<td>(2-2)</td>
</tr>
<tr>
<td>AGEC 350</td>
<td>Environmental and Natural Resource Economics</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 318</td>
<td>Coupled Social and Ecological Systems</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 404</td>
<td>Changing Natural Resource Policy</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 406</td>
<td>Natural Resources Policy</td>
<td>(3-0)</td>
</tr>
<tr>
<td>RENR 470</td>
<td>Environmental Impact Assessment</td>
<td>(3-0)</td>
</tr>
<tr>
<td>ESSM 304</td>
<td>Rangeland Plant Taxonomy</td>
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<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>SCSC 310</td>
<td>Soil Morphology and Interpretations</td>
<td>(1-3)</td>
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<tr>
<td>Emphasis Area electives ¹</td>
<td></td>
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<tr>
<td>Electives</td>
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</table>

**Total hours for the Rangeland Ecology and Management Rangeland Resources Degree** 120

**NOTES:**

¹ To be selected in consultation with an advisor.

² The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

³ Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
**Proposed Curriculum in**

**Rangeland Ecology and Management**

**Rangeland Resources Option**

**Catalog 16-17**

**University Core Curriculum**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGEC 105 Introduction to Agricultural Economics</td>
<td>(3-0) 3</td>
</tr>
<tr>
<td>BIOL 101 Botany</td>
<td>(3-3) 4</td>
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<tr>
<td>or</td>
<td></td>
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<tr>
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<tr>
<td>HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Prac. Lab</td>
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<tr>
<td>CHEM 101 and 111 Fundamentals of Chemistry I and Lab</td>
<td>(3-3) 4</td>
</tr>
<tr>
<td>RENR 215 Fundamentals of Ecology Lab</td>
<td>(0-3) 1</td>
</tr>
<tr>
<td>American History electives</td>
<td>(2-0) 6</td>
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<td>Communication electives</td>
<td>(2-0) 6</td>
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<td>Government/Political Science electives</td>
<td>(2-0) 6</td>
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<tr>
<td>Language, Philosophy and Culture elective</td>
<td>(2-0) 3</td>
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<tr>
<td>Mathematics electives (MATH prefix required)</td>
<td>(2-0) 6</td>
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**Ecosystem Science and Management**

**Core Courses**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>ESSM 201 Exploring Ecosystem Science and Management</td>
<td>(1-0) 1</td>
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<tr>
<td>ESSM 301 Wildland Watershed Management</td>
<td>(2-2) 3</td>
</tr>
<tr>
<td>ESSM 306 Plant Functional Ecology and Adaptation</td>
<td>(3-0) 3</td>
</tr>
<tr>
<td>or</td>
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<tr>
<td>ESSM 311 Biogeochemistry and Global Change</td>
<td>(3-0) 3</td>
</tr>
<tr>
<td>ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems</td>
<td>(2-2) 3</td>
</tr>
<tr>
<td>ESSM 351 Geographic Information Systems and Resource Management</td>
<td>(2-2) 3</td>
</tr>
<tr>
<td>ESSM 481 Senior Seminar</td>
<td>(1-0) 1</td>
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<tr>
<td>RENR 205 Fundamentals of Ecology</td>
<td>(3-0) 3</td>
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<tr>
<td>SCSC 301 Soil Science</td>
<td>(3-2) 4</td>
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**Rangeland Ecology and Management**

**Core Courses**

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ESSM 302 Wildland Plants of North America</td>
<td>(2-2) 3</td>
</tr>
<tr>
<td>ESSM 303 Agrostology</td>
<td>(1-6) 3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ESSM 304 Rangeland Plant Taxonomy</td>
<td>(2-6) 4</td>
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</tbody>
</table>
ESSM 314 Principles of Rangeland Ecology and Management Around the World ............ (3-0) 3
ESSM 315 Rangeland Inventory and Monitoring ............................................ (0-2) 1
ESSM 316 Range Ecology ............................................................................... (2-2) 3
ESSM 317 Vegetation Management .............................................................. (3-0) 3
ESSM 415 Range Analysis and Management Planning ¹ ......................................... (3-2) 4
or
RENR 410 Ecosystem Management ................................................................... (3-2)

Choose two:
AGEC 325 Principles of Farm and Ranch Management ........................................ (2-2) 3
AGEC 350 Environmental and Natural Resource Economics ................................. (3-0) 3
ESSM 318 Coupled Social and Ecological Systems ............................................... (3-0) 3
ESSM 404 Changing Natural Resource Policy .................................................... (3-0) 3
ESSM 406 Natural Resources Policy .................................................................. (3-0) 3
RENR 470 Environmental Impact Assessment .................................................... (3-0) 3

ESSM 304 Rangeland Plant Taxonomy ................................................................ 4
SCSC 310 Soil Morphology and Interpretations ................................................. (1-3) 2
Emphasis Area electives ³ ................................................................................. 23
Electives ........................................................................................................... 6

Total hours for the Rangeland Ecology and Management Rangeland Resources Degree 120

NOTES:
¹ To be selected in consultation with an advisor.
² The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.
³ Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
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 RLEM-Rangeland Resources
Catalog Term: Fall 2014 - College Station
Campus: College Station
Evaluation Term: Summer 2015 - College Station
College: Agriculture & Life Sciences
Expected Graduation Date:
Degree: Bachelor of Science
Request Number:
Level: Undergraduate
Results as of:
Majors: Rangeland Ecology & Management
Minors:
Departments: Ecosystem Science & Mgmt
Concentrations:

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<td></td>
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<td>Program GPA:</td>
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<td>Overall GPA:</td>
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Transfer: 0.000

This is NOT an official evaluation.

Area: Major Coursework (39.000 credits) - Not Met

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<th>High</th>
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<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>
<th>Source</th>
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<td>No</td>
<td>AND</td>
<td>H.</td>
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<td></td>
<td>OR</td>
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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption

7/6/2015
unofficial evaluation

Area: Supporting Coursework (30,000 credits) - Not Met

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<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
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<tbody>
<tr>
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<tr>
<td>No</td>
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<td>ESSM 315 (writing intensive)</td>
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<tr>
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<tr>
<td>No</td>
<td>AND D.</td>
<td>ESSM 317</td>
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<tr>
<td>No</td>
<td>AND E.</td>
<td>Planning 4hrs</td>
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</tbody>
</table>

Select from one of the following: RENR 410 (writing intensive), ESSM 415 (writing intensive).

| No  | AND F.        | ESSM 304|           |     |      |                  |                  |      |         |              |           |         |              |
| No  | AND G.        | SCSC 310|           |     |      |                  |                  |      |         |              |           |         |              |

unofficial evaluation

Area: Emphasis Area Electives (18,000 credits) - Not Met

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<th>Required Courses</th>
<th>Term</th>
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<th>Grade Source</th>
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To be chosen in consultation with academic advisor.

unofficial evaluation

### Communication (6.000 credits) - Not Met

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<th>Subject Attribute</th>
<th>Low High Required Credits</th>
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<th>Term Subject</th>
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<th>Attribute</th>
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<tbody>
<tr>
<td>A</td>
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<td></td>
<td>Communication Requirement</td>
<td>Select 6 hours from any courses with the Communication attribute [KCOM].</td>
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**unofficial evaluation**

### Mathematics (6.000 credits) - Not Met

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<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>Mathematics Rqmt I 3hrs</td>
<td>Select from any course with the Mathematics attribute [KMTH].</td>
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<td>0.000</td>
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<td>B</td>
<td>AND</td>
<td></td>
<td></td>
<td>Mathematics Rqmt II 3hrs</td>
<td>Select from any course with the Mathematics attribute [KMTH].</td>
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**unofficial evaluation**

### Life and Physical Sciences (9.000 credits) - Not Met

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<th>Required Courses</th>
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<tbody>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>CHEM 101, 111 4hrs</td>
<td>Take CHEM 101. 111.</td>
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<td>.00</td>
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<td>AND</td>
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<td>BIOL 101 or BIOL 113 and 114</td>
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<td>C</td>
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<td></td>
<td>RENR 215</td>
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**unofficial evaluation**

### Language, Philosophy & Culture (3.000 credits) - Not Met

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<tr>
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<td></td>
<td>Language, Phil, Culture Rqmt 3hrs</td>
<td>Select any course with the Language, Philosophy and Culture attribute [K LPC].</td>
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**unofficial evaluation**
unofficial evaluation

**Area : Creative Arts ( 3.000 credits ) - Not Met**

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<th>Rule</th>
<th>Subject</th>
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<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Grade</th>
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<td>Creative Arts Requirement</td>
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</table>

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 Science ( 3.000 credits ) - Not Met**

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<th>Subject</th>
<th>Attribute</th>
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<th>High</th>
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<th>Required Courses</th>
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<td>AGEC 105</td>
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</table>

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.

<table>
<thead>
<tr>
<th>No</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Required Credits</th>
<th>Required Courses</th>
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<th>Attribute</th>
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<tr>
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<td>American History Rqmt 6hrs</td>
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Select from any course with the [KHIS] attribute.

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<th>Rule</th>
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<th>Attribute</th>
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<th>Required Credits</th>
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<th>Term</th>
<th>Subject</th>
<th>Course</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Political Science Rqmt 6hrs</td>
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Take POLS 206 and POLS 207.

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area : General Electives ( 4.0000 credits ) - Not Met**

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<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</th>
<th>Subject</th>
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<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td></td>
<td>General Electives 4hrs</td>
<td></td>
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</table>

Select from any course 100-499 not used elsewhere.

unofficial evaluation

Area: Work Not Applied - Met
Description: See advisor for acceptable substitutions.
Met

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<th>No</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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<tbody>
<tr>
<td>A.</td>
<td>Courses not applied</td>
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unofficial evaluation

Area: University Writing Requirement - Not Met
Met

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<tr>
<td>A.</td>
<td>Writing Requirement</td>
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</table>

Two courses required.
Only sections of ESSM 315, 405, 406, 415, 430, 462, 491; RENR 410 the Writing attribute [UWRT] may be used to satisfy this requirement.

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met
Met

<table>
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<th>Condition</th>
<th>Rule</th>
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<th>Attribute</th>
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<th>Required Credits</th>
<th>Required Courses</th>
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<th>Subject</th>
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<th>Credits</th>
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<tr>
<td>A.</td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
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</table>

Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

unofficial evaluation

Area: Foreign Language - Not Met
Met

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<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>
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<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</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.

unofficial evaluation

Area: Residence Requirement (36,000 credits) - Not Met

<table>
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<th>Condition</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Residence - Major 12hrs</td>
<td>Select from ESSM 300-499; RENR 410.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Residence 300-499 24hrs</td>
<td>Select from any 300-400 level course at Texas A&amp;M.</td>
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unofficial evaluation

Area: GPR-Major - Not Met

Description: A minimum GPR of 2.000 is required in all major field of studies courses.

<table>
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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
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<th>Required Credits</th>
<th>Required Courses</th>
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<th>Credits</th>
<th>Grade</th>
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<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Major GPR 31+hrs</td>
<td>Includes RUPM 100-499; RENR 205, 215, 240.</td>
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Back to Display Options

Print

CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT
MINOR IN RANGELAND ECOLOGY AND MANAGEMENT
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

Ecosystem Science and Management

4. (E.g., B.A. in History, Minor in History, Certificate in European Union):

Rangeland Ecology and Management Minor

5. Brief description of change:

Removing ESSM 415 and RENR 410 from the required coursework. Total required hours will be 15.

6. Rationale for change:

Lack of space in the ESSM 415 and RENR 410 classes.

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=AF1F17EA-9A92-11E1-2756AD3BB1F01D90

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. Mort Kompass  7/21/15
Department Head or Program Chair  Type Name & Sign  Date

Dr. Kim Dooley  7/21/15
Dean of College  Date

DR. Robert Knight  7/10/15
Chair, College Review Committee  Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sara@tamu.EDU
Curricular Services – 04/14
2016-2017

Minor Field of Study
in
Rangeland Ecology and Management

A selection from among the following courses will constitute a minor field of study. (Note: the College of Agriculture and Life sciences requires a C or better in any course used for the minor.)

Select 15 hours from the following 300-400 level courses:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>ESSM 302</td>
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<tr>
<td>ESSM 303</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESSM 304</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ESSM 314</td>
<td>3 hrs</td>
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<tr>
<td>ESSM 301</td>
<td>3 hrs</td>
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<tr>
<td>ESSM 316</td>
<td>3 hrs</td>
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<td>ESSM 317</td>
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<tr>
<td>ESSM 320</td>
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<tr>
<td>ESSM 416</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESSM 420</td>
<td>3 hrs</td>
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</tbody>
</table>

-Students are required to take either ESSM 302, ESSM 303 or ESSM 304 as part of the minor program.

-Students are required to take ESSM 314 as part of the minor program.

-Minimum of 15 hours required

-Must maintain a 2.0 or above in minor curriculum.

** Note: RENR 205/215 and BIOL (any course) are prerequisites for several of the classes required for the minor in Rangeland Ecology & Management. Students must satisfy these prerequisites or have approval from the instructor prior to taking a class.
Rangeland Ecology and Management Minor

Select one of the following:

- ESSM 302  Wildland Plants of North America  3
- ESSM 303  Agrostology
- ESSM 304  Rangeland Plant Taxonomy
- ESSM 314  Principles of Rangeland Management Around the World  3

Select 6 semester credit hours from the following:

- ESSM 301  Wildland Watershed Management
- ESSM 316  Range Ecology
- ESSM 317  Vegetation Management
- ESSM 320  Ecosystem Restoration and Management
- ESSM 416  Fire Ecology and Natural Resource Management
- ESSM 420  Ecological Restoration of Wetland and Riparian Systems
- ESSM 415  Range Analysis and Management Planning  4
  or RENR 410  or Ecosystem Management

Total Semester Credit Hours  15
<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
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</tbody>
</table>

- Must make a grade of 'C' or better.
- Select from ESSM 302-304.
- Electives 6hrs
- Must make a grade of 'C' or better.
- Select from ESSM 301, 310, 317, 320, 416, 420.
- Requirement 44hrs
- Must make a grade of 'C' or better.
- Select from RENN 410, ESSM 415.

Total Credits and GPA
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF RECREATION, PARK AND TOURISM SCIENCES
BS IN RECREATION, PARK AND TOURISM SCIENCES –
YOUTH DEVELOPMENT 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):  Recreation, Park and Tourism Sciences
   Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  B.S. in Recreation, Park and Tourism Sciences

4. Brief description of change: Changes to required courses in the embedded Youth Development Certificate include addition of RPTS 403, deletion of an RPTS Elective, and a change in RPTS 474 from 4 credits to 3 (separate course change proposal is being submitted).

5. Rationale for change: A faculty member's departure and replacement with a lecturer left a gap in expertise for some RPTS 474 content; this content is taught in RPTS 403.

6. 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

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:

Gary D. Ellis, Ph.D.  6/15/15
Department Head or Program Chair (Type Name & Sign)  Date

Kim Dorsey  7/21/15
Dept. of College  Date

Chair, College Review Committee  7/10/15
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]
Bachelor of Science
Recreation, Park and Tourism Sciences

University Core Requirements (42 hrs)
Communications (6 hours)
COMM 203 Public Speaking (3)
ENGL 104 Composition and Rhetoric (3)

Mathematics (6 hours)
Select from:
MATH 141 Business Mathematics I (3)
MATH 142 Business Mathematics II (3)
PHIL 240 Introduction to Logic (3)

Life and Physical Sciences (9 hours)
KINE 120 Science of Basic Health and Fitness (1)
RENR 205 Fundamentals of Ecology (3)
RENR 215 Fundamentals of Ecology Lab (1)
Life and physical sciences electives (4)

Language, Philosophy and Culture (3 hours)

Creative Arts (3 hours)

Social and Behavioral Sciences (3 hours)

Government/Political Science (6 hours)
POLS 206 American National Government (3)
POLS 207 State and Local Government (3)

American History (6 hours)
HIST 105 History of the United States (3)
HIST 106 History of the United States (3)

Departmental Core Requirements (22 hrs)
Both of the following classes on Foundational Knowledge
   RPTS 201 Foundations of Recreation, Parks and Tourism (3)
   RPTS 336 Research Methods in Recreation and Tourism (3)
One class on fundamentals of designing and staging recreation and tourism experiences
   RPTS 311 Planning and Implementation of Events and Programs (3)
The following class, providing an overview of tourism and an introduction to marketing recreation, park and tourism products/offerrings:
   RPTS 302 Application of Tourism Principles (3)
The following course on diversity in parks, recreation, and tourism:
   RPTS 340 Diverse Populations in Recreation, Parks and Tourism (3) (D)
The following class on career development and internship preparation: RPTS 481 Seminar (1)
Internship: RPTS 484 Internship (6)
### Supporting Coursework/Certificate Programs (19 hours each) – RPTS Majors must complete at least one Certificate

<table>
<thead>
<tr>
<th>Tourism Management</th>
<th>Youth Development</th>
<th>Community Recreation &amp; Park Administration</th>
<th>Parks and Conservation</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS 320 (3)*</td>
<td>RPTS 304 (3)</td>
<td>RPTS 209 (3)</td>
<td>RPTS 304 (3)</td>
</tr>
<tr>
<td>RPTS 331 (3)</td>
<td>RPTS 370 (3)</td>
<td>RPTS 304 (3) or 423 (3)</td>
<td>RPTS 307 (3)*</td>
</tr>
<tr>
<td>RPTS 401W (4) or 403W (4)</td>
<td>RPTS 371 (3)*</td>
<td>RPTS 370 (3)</td>
<td>RPTS 316 (3)</td>
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<tr>
<td>RPTS 423 (3)</td>
<td>RPTS 403 W (4)</td>
<td>RPTS 402C (3)*</td>
<td>RPTS 402C (3)*</td>
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<tr>
<td>RPTS 426W (3)</td>
<td>RPTS 474W (3)</td>
<td>RPTS 403W (4)</td>
<td>RPTS 403W (4)</td>
</tr>
<tr>
<td>RPTS Elective (3)</td>
<td>RPTS 478 (3)</td>
<td>RPTS Elective (3)</td>
<td>RPTS/RENR 460W (3)*</td>
</tr>
</tbody>
</table>

*Courses eligible for substitution include field-based study courses, study abroad courses and courses taken as a part of a reciprocal exchange experience.

### Required Technical Support (12 hrs)
- RENR 201 Computer Applications in Agriculture (3)
- ACCT 209 Survey of Accounting Principles (3)
- ENGL 210 Technical and Business Writing (3)
  - or AGCJ 404 Communicating Agricultural Information to the Public (3)
- STAT 201 Elementary Statistical Inference (3)
  - or STAT 302 Statistical Methods (3)
  - or STAT 303 Statistical Methods (3)

### Credits Toward Graduation (total of 120 required):
- University Core: 42
- Departmental Core: 22
- Supporting Coursework/Certificates: 19
- Required Technical Support: 12
- Free Electives: 25
Recreation, Park and Tourism Sciences - BS, Youth Development Certificate

The undergraduate curriculum leading to a Bachelor of Science degree with a major in Recreation, Park and Tourism Sciences provides students with an education in recreation, park and tourism sciences, with an emphasis on problem-solving skills, development of an international perspective and the application of scientific principles to managerial problems. The first two years of studies build a foundation that spans a wide range of disciplines and bodies of knowledge in the arts and sciences and provide the student with an introduction to the history and concepts of recreation, park and tourism sciences. The second two years prepare students with the knowledge and skills for both entry-level positions and for future professional growth in the field. In addition to core courses, students must fulfill requirements for at least one certificate, but may earn additional certificates.

Through the curriculum, students develop the depth and breadth of knowledge needed to scientifically investigate and select among alternatives as well as the intellectual skills to organize and integrate their knowledge in new and more effective patterns. An education in recreation, park and tourism sciences prepares students to become professionals with the capacity to learn from and throughout life.

The department maintains links with other resource-management programs within the University as well as exchange programs with other academic entities. Supporting programs at Texas A&M include the resource management programs in Rangeland Ecology and Management, Wildlife and Fisheries Sciences, and the Sports Management Specialization in the Department of Health and Kinesiology.

Youth Development Certificate

This option focuses on programs and services that contribute to the development of young people's personal, physical, social and educational abilities. Youth workers are program developers, leaders and managers who need to be able to work with youth, families, organizations and communities. Coursework in this option focuses on positive youth development, program planning and evaluation, methods for working with young people, and societal factors that both contribute to and inhibit the development of young people. Students with an option in this field look forward to careers with non-profit, public and for-profit agencies that supply youth development opportunities for young people. Settings include after-school programs, community programs, camps, outdoor adventure and church-related recreation programs.

Program Requirements

**Youth Development Certificate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RPTS 304</td>
<td>Administration of Recreation Resource Agencies</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 370</td>
<td>Youth Development Organizations and Services</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 371</td>
<td>Understanding and Developing Effective Skills for Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 474</td>
<td>Management of Programs and Services for Youth</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 478</td>
<td>Youth Development Practice</td>
<td>3</td>
</tr>
<tr>
<td>Departmental electives</td>
<td>RPTS 403 Financing and Marketing</td>
<td>4.5</td>
</tr>
<tr>
<td>Free electives</td>
<td>RPTS 403 Financing and Marketing</td>
<td>25</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

Recreation, Park and Tourism Resources

44
| Social and Behavioral Sciences                  | 3 |
| 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 |
| **Total Semester Credit Hours**                | **76** |

The Graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement.
Youth Development - Certificate

This option focuses on programs and services that contribute to the development of young people's personal, physical, social and educational abilities. Youth workers are program developers, leaders and managers who need to be able to work with youth, families, organizations and communities. Coursework in this option focuses on positive youth development, program planning and evaluation, methods for working with young people, and societal factors that both contribute to and inhibit the development of young people. Students with an option in this field look forward to careers with non-profit, public and for-profit agencies that supply youth development opportunities for young people. Settings include after-school programs, community programs, camps, outdoor adventure and church-related recreation programs.

Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RPTS 304</td>
<td>Administration of Recreation Resource Agencies</td>
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<tr>
<td>RPTS 370</td>
<td>Youth Development Organizations and Services</td>
<td>3</td>
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<tr>
<td>RPTS 371</td>
<td>Understanding and Developing Effective Skills for Youth Development</td>
<td>3</td>
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<tr>
<td>RPTS 474</td>
<td>Management of Programs and Services for Youth</td>
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</tr>
<tr>
<td>RPTS 478</td>
<td>Youth Development Practice</td>
<td>3</td>
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</table>

Departmental electives: RPTS 483

Total Semester Credit Hours: 19
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 401 courses may be used for an undergraduate degree.

Program: BS RPTS
Campus: College Station
College: Agriculture & Life Sciences
Degree: Bachelor of Science
Level: Undergraduate
Majors: Recreation, Park & Tourism Sc
Departments: Recreation, Park & Tourism Sc

Catalog Term: Fall 2014 - College Station
Evaluation Term: Spring 2015 - College Station
Expected Graduation Date: 
Request Number: 381
Results as of: Jun 10, 2015
Minors: Concentrations:

<table>
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<tr>
<th>Met</th>
<th>Credits Required</th>
<th>Used</th>
<th>Required</th>
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<td>120.000</td>
<td>0.000</td>
<td>0.00</td>
<td>0.00</td>
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<td>Program GPA :</td>
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<td>Overall GPA :</td>
<td>No</td>
<td>2.00</td>
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Other Course Information

Transfer :
0.000
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This is NOT an official evaluation.

Area Major Coursework (22.000 credits) - Not Met :

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<tr>
<th>Met</th>
<th>Condition Rule</th>
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<th>Attribute Low High</th>
<th>Required</th>
<th>Required</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
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<tbody>
<tr>
<td>No</td>
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<td>A.</td>
<td>RPTS 201</td>
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<tr>
<td>No</td>
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<td>RPTS 302</td>
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<tr>
<td>No</td>
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<td>C.</td>
<td>RPTS 311</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>D.</td>
<td>RPTS 336</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>E.</td>
<td>RPTS 340</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>F.</td>
<td>RPTS 481</td>
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<td>No</td>
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<td>RPTS 484 6hrs</td>
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Total Credits and GPA
0.000
0.00

unofficial evaluation

Area: Supporting Coursework (19.000 credits) - Not Met

Description: RPTS majors must complete at least one certificate.

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<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject</th>
<th>Attribute Low High</th>
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<tbody>
<tr>
<td>No</td>
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<td>A.</td>
<td>Tourism Management 19hrs</td>
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<tr>
<td>No</td>
<td>OR(</td>
<td>B.</td>
<td>Youth Development 19hrs</td>
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<tr>
<td>No</td>
<td>OR(</td>
<td>C.</td>
<td>Community Rec 19hrs</td>
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<td>No</td>
<td>OR(</td>
<td>D.</td>
<td>Parks Conservation 19hrs</td>
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Select from RPTS 304, 307, 316, 402, 403, and RPTS/RENR 460.
unofficial evaluation

Area: Creative Arts (3,000 credits) - Not Met

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<th>Rule</th>
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<th>Attribute</th>
<th>Low</th>
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<th>Credits</th>
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<th>Courses</th>
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<tbody>
<tr>
<td>A.</td>
<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [KCPA].</td>
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unofficial evaluation

Area: Social and Behavioral Sciences (3,000 credits) - Not Met

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<th>Rule</th>
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<th>Low</th>
<th>High</th>
<th>Required</th>
<th>Credits</th>
<th>Required</th>
<th>Courses</th>
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<tr>
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<td>Social Science Rqmt 3hrs</td>
<td>Select from courses with the Social and Behavioral Science attribute [KSOCL].</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>Condition</th>
<th>Rule</th>
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<th>Attribute</th>
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<th>High</th>
<th>Required</th>
<th>Credits</th>
<th>Required</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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<td>American History Rqmt 6hrs</td>
<td>Select from any course with the [KHS] attribute.</td>
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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
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<th>Required</th>
<th>Credits</th>
<th>Required</th>
<th>Courses</th>
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<tr>
<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: General Electives (25,000 credits) - Not Met

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<th>Condition</th>
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<th>Required</th>
<th>Credits</th>
<th>Required</th>
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<th>Credits</th>
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<th>Source</th>
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<td>General Electives 25hrs</td>
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unofficial evaluation

Area: Work Not Applied - Met

Description: See advisor for acceptable substitutions.

<table>
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<tr>
<th>No</th>
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<th>Attribute</th>
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<tr>
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unofficial evaluation
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF RECREATION, PARK AND TOURISM SCIENCES
TOURISM AND HOSPITALITY MANAGEMENT CERTIFICATE
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):  Recreation, Park and Tourism Sciences

   Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  Tourism and Hospitality Management - Certificate

4. Brief description of change:  Revise the name of the certificate to Hospitality Management. Code the Certificate as Standalone instead of Embedded. In addition to U1-U4, students with U5, G6, G7 and G8 status may apply.

5. Rationale for change:  The original name causes confusion because we have an Embedded Certificate entitled "Tourism Management." This Certificate was always intended to be Stand-alone, but the initial form contained an error. We wish to accommodate U5 and higher students with an interest in this Certificate, with particular applicability to athletes who have 2 semesters of eligibility after completing their bachelor's degree, but are not good candidates for graduate school. G6 and G7 students from other Colleges have expressed interest and obtained permission from their advisors to apply for the Certificate.

6. 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-9A92-4F11-2756AD3B6F01D60

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 (Decemer-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:

Gary D. Ellis, PhD  6/15/15  Dean of College

Department Head or Program Chair (Type Name & Sign)  Date  7/10/15  Chair, College Review Committee  Date

Kim Dooley  7/21/15  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
Hospitality Management Certificate Program
Department of Recreation, Park & Tourism Sciences, Texas A&M University
Open to All Majors

The Hospitality Management Certificate Program (HMCP), offered by the Department of Recreation, Park and Tourism Sciences, is designed to provide students with an understanding of the planning, analysis, and decision-making techniques needed for management positions in the tourism and hospitality industries. Students will study and develop skills related to principles of management, sustainability, development, cultural tolerance, marketing, finance, and service quality as they apply to the hospitality and tourism industries.

The HMCP requires a minimum of 15 credit hours in designated courses, all of which are to be taken online. If a student has taken the on-campus version of any course prior to enrollment in the Certificate, it may be substituted for the on-line version with permission of the RPTS academic advisor. Students must earn a grade of “C” or better in each course used to meet the requirements, and an overall average of at least 2.5 in applicable coursework.

All TAMU undergraduate students, including U5 students, as well as graduate students with G6, G7 or G8 status (with permission of their advisors) may apply for admission to the certificate program. Specific certificate requirements, details and an application are available at http://rpts.tamu.edu/online-tourism-and-hospitality-management-certificate/ and in the Undergraduate Programs Office of the department of Recreation, Park and Tourism Sciences. Students are encouraged to apply prior to completing coursework as there is no guarantee of admission to the program.

Applicants must fulfill the following requirements in order to be considered for the program:

- An overall TAMU GPA of 2.0 or higher is required for acceptance into the HMCP.
- Must complete the HMCP application and essay.

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Required Courses</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS 302</td>
<td>Application of Tourism Principles</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 331</td>
<td>Tourism Marketing (pre-requisite: RPTS 302)</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 421</td>
<td>Planning and Implementation of Events in Resorts and Hotels (pre-requisite: RPTS 302)</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 423</td>
<td>Tourism Management (pre-requisite: RPTS 302)</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 444</td>
<td>Service Quality for Hospitality Organizations (pre-requisite: RPTS 302)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL SCH 15
Course Descriptions:

RPTS 302 - APPLIC TOURISM PRINCIPLES
Application of Tourism Principles. (3-0). Credit 3. Tourism principles applied at local, regional and international levels; examination of the scale, scope and organization of the industry including marketing destinations and experiences; issues related to the economic, technological and political aspects of tourism.

RPTS 331 - TOURISM MARKETING
Tourism Marketing. (3-0). Credit 3. Application of basic tourism marketing principles and concepts in government, business, and social-cause contexts; situation analysis and operational evaluation; decision making in terms of product, place, price, and channel of distribution mixes for tourism attractions and services. Prerequisite: RPTS 302.

RPTS 421 - PLAN IMPEMT OF EVENTS
Planning and Implementation of Events in Resorts and Hotels. (3-0). Credit 3. Principles and applications for effective planning and management of events in resorts and hotels; planning, promotion, operational logistics, sponsorship and evaluation. Prerequisite: RPTS 302.

RPTS 423 - TOURISM MGMT
Tourism Management. (3-0). Credit 3. Management issues and tools related to the travel and tourism industry; history, planning, operations, leading, directing and controlling tourism businesses; complexity and scope of tourism systems; issues related to ethics and sustainability; managing tourism in different environments; roles of technology and information technology; future of tourism. Prerequisite: RPTS 302.

RPTS 444 - SERVQUAL FOR HOSP ORGS
Service Quality for Hospitality Organizations. (3-0). Credit 3. Application of SERVQUAL concepts with focus on implementing measures to enhance customer service; in-depth study of planning and administering hospitality services strategies, measurement of service delivery, repair and recovery of service delivery gaps, and management and training of employees; practical applications of research in the field. Prerequisite: RPTS 302.
Tourism and Hospitality Management - Certificate

The Certificate in Tourism and Hospitality Management, offered by the Department of Recreation, Park and Tourism Sciences, is designed to provide students with an understanding of the planning, analysis, and decision-making techniques needed for management positions in the tourism and hospitality industries. Students will study and develop skills related to principles of management, sustainability, development, cultural tolerance, marketing, finance, and service quality as they apply to the hospitality and tourism industries.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS 302</td>
<td>Application of Tourism Principles</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 331</td>
<td>Tourism Marketing</td>
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</tr>
<tr>
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<td>Planning and Implementation of Events in Resorts and Hotels</td>
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<tr>
<td>RPTS 423</td>
<td>Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>RPTS 444</td>
<td>Service Quality for Hospitality Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>15</td>
</tr>
</tbody>
</table>
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF WILDLIFE AND FISHERIES SCIENCES
MINOR IN WILDLIFE AND FISHERIES 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):  Wildlife and Fisheries Science

4. Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union):  Minor in Wildlife and Fisheries Science

5. Brief description of change:  Instead of choosing between WFSC 408 & WFSC 417, students can now choose between WFSC 408, WFSC 444, WFSC 447, WFSC 448, WFSC 404, and WFSC 425

6. Rationale for change:  We want to give students more choices for what they could choose to complete their minor.

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:

[Signatures and dates]

Questions regarding this form should be directed to Curricular Services at 845.8201 or sandra-williams@tamu.edu
Curricular Services – 04/14
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFSC 302</td>
<td>Natural History of the Vertebrates</td>
<td>3</td>
</tr>
<tr>
<td>WFSC 304</td>
<td>Wildlife and Fisheries Conservation</td>
<td>3</td>
</tr>
<tr>
<td>WFSC 403</td>
<td>Animal Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

- WFSC 311 Ichthyology (*)
- WFSC 401 General Mammalogy
- WFSC 402 General Ornithology

Select one of the following: 3

- WFSC 405 Urban Wildlife and Fisheries
- WFSC 406 Conservation Biology and Wildlife Habitat Management
- WFSC 410 Principles of Fisheries Management (*)

Select one of the following: 3

- WFSC 408 Techniques of Wildlife Management
- WFSC 447 Biology of Fishes (*)

(*)- Aquatic courses WFSC 448, WFSC 404

**Total Semester Credit Hours**: 18

Students must choose at least one terrestrial and one aquatic course.
Minor Field of Study

Wildlife and Fisheries Sciences

Students wishing to take courses leading to a minor field of study in Wildlife and Fisheries Sciences will complete the following list of course requirements. Please note there are prerequisites for WFSC 304 and 302. (See footnotes)

All students must take the following courses:

- WFSC 304\(^1\) 3 Cr  Wildlife & Fisheries Management
- WFSC 302\(^2\) 3 Cr  Natural History of the vertebrates
- WFSC 403 3 Cr  Animal Ecology

Select 1 course in each of the following three categories of 300-400 level courses.

Students must choose at least one terrestrial and one aquatic course.:

1)  
- WFSC 311 3 Cr  Ichthyology*
- WFSC 401 3Cr  Mammalology
- WFSC 402 3Cr  General Ornithology

2)  
- WFSC 405 3Cr  Urban Wildlife and Fisheries
- WFSC 406 4Cr  Conservation Biology and Habitat Management
- WFSC 410 4Cr  Principles of Fisheries Management*

3)  
- WFSC 408 3Cr  Techniques of Wildlife Management
- WFSC 444 3Cr  Aquaculture I: Principles and Practices*
- WFSC 448 3Cr  Fish Ecophysiology*
- WTSC 404 3Cr  Aquatic Ecosystems*
- WFSC 425 3Cr  Marine Fisheries*

*Aquatic Courses

\(^1\) WFSC 304 has a prerequisite of RENR 203, Fundamentals of Ecology.

\(^2\) WFSC 302 has a prerequisite of BIOL 111 & 112, Biology I & II

Or

BIOL 101, Botany & BIOL 107, Zoology.
<table>
<thead>
<tr>
<th>No</th>
<th>A. Elective I 9hrs</th>
<th>B. Elective II 3hrs</th>
<th>C. Elective III 3hrs</th>
<th>D. Elective IV 3hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Must make a grade of 'C' or better. Select from WFSC 302, 301, 403.</td>
<td>Must make a grade of 'C' or better. Select from WFSC 311, 401-402.</td>
<td>Must make a grade of 'C' or better. Select from WFSC 405-406, 410.</td>
<td>Must make a grade of 'C' or better. Select from WFSC 408, 424.</td>
</tr>
</tbody>
</table>

Total Credits and GPA: 3.000 GPA: 0.00
Minor Field of Study
Wildlife and Fisheries Sciences

Students wishing to take courses leading to a minor field of study in Wildlife and Fisheries Sciences will complete the following list of course requirements. Please note there are prerequisites for WFSC 304 and 302. (See footnotes)

All students must take the following courses:
- WFSC 304 3 Cr  Wildlife & Fisheries Management
- WFSC 302 3 Cr  Natural History of the vertebrates
- WFSC 403 3 Cr  Animal Ecology

Select 1 course in each of the following three categories of 300-400 level courses.

Students must choose at least one terrestrial and one aquatic course:

1) WFSC 311 3 Cr  Ichthyology*
WFSC 401 3 Cr  Mammalogy
WFSC 402 3 Cr  General Ornithology

2) WFSC 405 3 Cr  Urban Wildlife and Fisheries Conservation
WFSC 406 4 Cr  Conservation Biology and Habitat Management
WFSC 410 4 Cr  Principles of Fisheries Management*

3) WFSC 408 3 Cr  Techniques of Wildlife Management
WFSC 444 3 Cr  Aquaculture I: Principles and Practices*
WFSC 448 3 Cr  Fish Ecophysiology*
WFSC 404 3 Cr  Aquatic Ecosystems*
WFSC 425 3 Cr  Marine Fisheries*
WFSC 447 3 Cr  Aquaculture II: Aquatic Animal Nutrition, Feeding & Disease Management*

*Aquatic Courses

1 WFSC 304 has a prerequisite of RENR 205, Fundamentals of Ecology.
2 WFSC 302 has a prerequisite of BIOL 111 & 112, Biology I & II
   Or
   BIOL 101, Botany & BIOL 107, Zoology.
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING
MINOR IN MATERIALS SCIENCE AND 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):
   Program Designation and Name
   Department of Materials Science and Engineering

4. (e.g., B.A. in History, Minor in History, Certificate in European Union):
   Minor in Materials Science and Engineering

5. Brief description of change:
   Change technical elective MSEN 685 to MSEN 491.

6. Rationale for change:
   The MSEN minor curriculum initially included “optional” graduate-level research credits (MSEN 685) as one potential technical elective. For an undergraduate minor, graduate-level research credits are less appropriate than undergraduate-level course research credits (MSEN 491). Therefore, we are updating the curriculum to reflect a more suitable course, while maintaining the original intent of the curriculum.

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=A0F9E7FA-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. Miladin Radovic
Department Head or Program Chair (Type Name & Sign) Date: 06/01/2015

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
Materials Science and Engineering Minor

The Materials Science and Engineering Minor is designed to provide a strong materials science educational program for undergraduate science and engineering majors and to integrate a materials focus into their undergraduate training. The minor is intended for students who are interested in broadening their undergraduate major program of study to incorporate a fundamental understanding of materials processing, and structure–property relationships to complement their major degree. Thus, the minor offers students the flexibility to select relevant coursework in order to customize this program of study to best suit the particular students intended area of focus (with consultation of the MSEN faculty advisor).

The Materials Science and Engineering Minor consists of a minimum of (5) three-hour courses for a total of 15 credit hours, with up to 6 credit hours in materials courses within their major. All students are required to have completed a pre-requisite prior to applying for the minor: MSEN 201 – Engineering Materials: From Structures to Properties (or equivalent course). Two three-hour courses (6 credit hours) are selected from a list of core MSEN undergraduate courses. The remaining (3) three-hour courses (9 credit hours) are selected from upper-level materials-focused technical electives. With the permission of the MSEN faculty advisor, students may substitute up to (2) technical electives with courses from their major department with a primary focus on materials science and engineering. Completion of the minor will be recorded on the student’s University transcript.

Guidelines

Students should complete the MSEN minor application form and consult with the MSEN faculty advisor, prior to formally registering for the minor. The academic advisor in a students’ major department is responsible for officially enrolling students in the minor program.

Requirements

- Consult with academic advisor in major department to formally register for the minor.
- Be in good academic standing within major department (GPR of 2.5 and higher).
- Obtain a "C" or better in each course taken towards minor.
- Achieve an overall GPR of 2.5 in approved minor coursework.
- Submit completed minor worksheet to the Department of Materials Science and Engineering undergraduate advisor upon registering for final course(s) to complete minor requirements.
Course Requirement Summary

To earn the Minor in Materials Science & Engineering, a student must first complete the pre-requisite introductory materials course. Subsequently, a total of five materials science courses (15 hours), at least two of which are selected from the list of core materials science courses, the balance composed of materials science technical electives.

Pre-requisites:

- MSEN 201* – Engineering Materials: From Structures to Properties
  
  * Or equivalent introductory materials course with faculty advisor approval.

Select at least two of the following Core MSEN undergraduate courses:

- MSEN 310 Structure of Materials
- MSEN 420 Polymer Science
- MEEN 467/MSEN 625 Mechanical Behavior of Materials
- MSEN 460 Electronic, Optical, and Magnetic Properties of Materials

Technical Elective MSEN undergraduate courses*:

- MSEN 410 Materials Processing
- MSEN 489 Nanoscience & Nanomaterials
- MSEN 489 Fundamentals of Corrosion
- MEEN 458 Processing and Characterization of Polymers
- MSEN 458/MSEN 658 Fundamentals of Ceramics
- MEEN 471/MSEN 618 Elements of Composite Materials
- MSEN 685-MSEN 491 Individual Research (PROPOSED CHANGE)

* Upon consultation with the materials science faculty advisor, up to 2 upper-level technical electives in the student’s major department may be accepted in place of these courses.
For more information:

**Jules Henry**
Department of Materials Science & Engineering
210 Reed McDonald
3003 TAMU
College Station, TX 77843-3003

Email:  jules.henry@tamu.edu
Phone: (979) 862-1089
Fax:    (979) 862-6835
TEXAS A&M UNIVERSITY
AT GALVESTON
TAMUG
NEW COURSE
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
Submit original form and attach a course syllabus.

1. Request submitted by (Department or Program Name): Department of Maritime Transportation

2. Course prefix, number and complete title of course: MART 205 Marine Surveying

3. Catalog course description (not to exceed 50 words):
The course is intended to acquaint the student with the fundamentals of marine surveying and inform student on how to carry out various types of marine surveying and write survey reports by meeting regulatory and industry standards for submission to maritime clients.

4. Prerequisite(s):
For MART majors MART 202 & 203, or for MARR majors MARR 206, or MARR majors MARR 101, or for MARR-NLO MARR 101 or approval of Instructor

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.

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)

B.S. Maritime Transportation, B.S. Maritime Administration, & B.S. Marine Engineering Technology

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

9. Prefix: MART  Course #: 205   Title (excluding punctuation): Marine Surveying
   Lept. Lib. SCH. CRN and Fund Code: 03 0005 3400 0000 01 12 18 25 10 17 00 02 98
   Admin. Unit: 17  Level: 2
   Acad. Year: 17

Approval recommended by:

Augusta D. Bolt
Department Head or Program Chair (Type Name & Sign) Date 7/18/15

Chair, College Review Committee Date 7/13/15

Dean of College Date

Submitted to Coordinating Board by:

Chief, OC 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 – 3/10
MART 205 Marine Surveying
Fundamentals of marine surveying using the various types of maritime surveys; writing survey reports by meeting regulatory and industry standards for submission to maritime clients.

sw
MART 205 Marine Surveying
Fall 2016

Instructor: Capt. F. J. Bourgeois
Office: Room #115 Kirkham Hall
Phone: 409-740-4766
Email: bourgeoij@tamug.edu
Office Hours: MW 09-1000 & F 09-1100 or by appointment

Class: Lecture: MW 1630-1750  3 hour lecture weekly in Building 3002 Room 106

Course Description: The course is intended to acquaint the student with the fundamentals of Marine Surveying and inform student on how to carry out various types of maritime survey and to write survey reports by meeting regulatory and industry standards for submission to maritime clients.

Learning Outcome/Objective: Students will be able to identify capacity and seaworthiness of various vessels. Student will be able to differentiate techniques needed to properly fulfill marine surveys to maritime industry standards. Student will recognize the proper marine survey documentation required for submission to clients.

Prerequisites: For MART majors MART 202 & 203, or for MARA majors MARA 205, or MARR majors MARR 101, or for MARR-NLO MARE 100, or approval of instructor

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation (absences will affect the portion)</td>
<td>10%</td>
</tr>
<tr>
<td>Exams (4 exams at 17.5% each)</td>
<td>70%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

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

Texts:
Nonprogrammable Calculator with a Degree/Minutes/Seconds button & basic trig functions
(Casio fx-115MS-sr or fx-300MS Plus are the one I use, less work for functions)

Course Rules:
- All students must follow the proper attire and grooming standards while in class. It shows you are fit for duty and professionally prepared.
- You must be rested and alert during all class lectures. Sleeping in class will not be tolerated.
- No personal electronics (phones, I-pads, and computers) are allowed in this course, barring special needs or circumstances.
- DO NOT show up late. You are expected to treat every class lecture as you would treat employment: professionally. Come early, and come fit for duty.
- DO NOT bring food, drinks, or tobacco (including dip) into the classroom.
- The instructor expects professional etiquette at all times, including being proactive to participate in class discussions and practical exercises and avoiding carrying on side conversations during class.
- It is the instructor’s responsibility to maintain an organized classroom structure. If your behavior becomes a distraction to anyone, you will be asked to excuse yourself.
• If you do not understand or know the answer, it is your professional responsibility to seek advice on the matter before it becomes a problem. In other words, “Call the Master when in doubt!”
• If your work is not legible, then no credit will be given.
• If you do not put your name on your paper it is an automatic -10 points, even if I figure out whose assignment it is.
• All work must be complete within 30 calendar days of last day of excused absence. No exception. No excuse, then I will not accept work.

Statement on Academic 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 to tolerate scholastic dishonesty. The Aggie Code of Honor and the Scholastic Dishonesty sections in the TAMUG University handbook will be the standard upon which scholastic integrity will be maintained in this course. It is the responsibility of the student to familiarize themselves with the standards, definitions, and procedures concerning academic dishonesty. Academic dishonesty infractions will result in failure of this course as a minimum sanction. See http://www.tamug.edu/HonorSystem for further information.

The American 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/Disabilities.html

TAMUG 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 & deadlines as well as student grievance procedures (Part III, Section 45). See http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf. All work must be complete within 30 calendar days of last day of excused absence.

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 the 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 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, your Howdy portal, or by scanning.
# MART 404 Detailed Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Lee/Lab</th>
<th>Subject</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lee A</td>
<td>Introduction Syllabus Equipment</td>
<td>Ch. 1</td>
</tr>
<tr>
<td></td>
<td>Lee B</td>
<td>Barge On-hire/Off-hire Survey</td>
<td>Ch. 7</td>
</tr>
<tr>
<td>2</td>
<td>Lee A</td>
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<td>Ch. 5</td>
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<td>Practice Soundings, Ullages, &amp; Freeboard</td>
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<td>Ship On-hire/Off-hire Survey</td>
<td>Ch. 6</td>
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<td>Tug/Crewboat/Supply Boat On-hire Survey</td>
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<td>Lee B</td>
<td>Vessel Attendance/Cargo Condition Surveys</td>
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<td>Ship/Boat/Barge Damage Survey</td>
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<td>14</td>
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<td>Regulations &amp; Documentation</td>
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<td>Lee B</td>
<td><strong>Test # 4 Weeks 12-14</strong></td>
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<td>15</td>
<td>FINAL</td>
<td>Comprehensive of all subject matter &amp; multiple choice questions</td>
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<td>Do not plan to leave until after the final date specified in the academic final schedule</td>
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</table>
Academic Integrity Statement and Policy

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

All syllabi should contain a section that states the above Aggie Honor Code and refers the student to the Honor Council Rules and Procedures on the web: http://www.tamug.edu/HonorSystem.

It is further recommended that instructors print the following on assignment and examinations:

"On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."

Homework Policy

I understand all homework must be turned in on the due date and all work shown for credit. If there is an excused absence, I will have the work in within 1 week of return to duty date.

[Signature of the Student] [Date]

[Student Name Printed] MART 205
TAMUG

CHANGE IN CURRICULUM

TAMUG

TEXAS A&M UNIVERSITY AT GALVESTON

DEPARTMENT OF MARITIME ADMINISTRATION

BS IN MARITIME ADMINISTRATION
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 (TAMUK)

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 changes:
   Add MARA 491 as a directed studies elective and add MARA 493 as a directed elective

6. Rationale for change:
   MARA 491 has been approved as a permanent course and MARA 493 has been approved as a permanent course

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=AC6F77BA-9A92-4E11-2756AD3B1BFFDF0

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 in order to ensure timely implementation.

Approval recommended by:

Joan P. Muehler

Department Head or Program Chair (Type Name & Title)

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 845-3201 or sandra.williams@tamu.edu
Curricular Services – 9/4/14
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 ECON 311, ECON 323 and ECON 452. For more information, see the website: http://www.tamug.edu/academics/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.

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<tr>
<th>Freshman Year</th>
<th>Fall Semester</th>
<th>(Th-Pr)</th>
<th>Cr</th>
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<tbody>
<tr>
<td>MARA 205</td>
<td>Introduction to Ships and Shipping†</td>
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<td>MATH 141</td>
<td>Business Math I</td>
<td>(3-0)</td>
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<td>POLS 206</td>
<td>American National Government</td>
<td>(3-0)</td>
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<td>Elective in American History</td>
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| Spring Semester | Management Information Systems† | (2-0)    | 2  |
| MATH 142      | Business Math II              | (3-0)    | 3  |
| Elective in American History | |             | 3  |
| Elective in Communication | |             | 3  |
| Elective in Life and Physical Sciences § | |             | 5  |
| Total         |                            |          | 16 |

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<th>Sophomore Year</th>
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<th>(Th-Pr)</th>
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<td>Introduction to Accounting†</td>
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<td>ECON 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>
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<td>Elective in Communication</td>
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<tr>
<td>Elective in Life and Physical Sciences §</td>
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<td>Total</td>
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| Spring Semester | 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  |
| POLS 207      | State and Local Government | (3-0)    | 3  |
| Total         |                            |          | 16 |
### 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
- **Total** 15

#### 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
- **Total** 15

### 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
- Elective (General) 3
- **Total** 15

#### Spring Semester
- **MARG 466** Strategic Management ↑ 3
- **MGMT 481** Seminar in Management ↑ (1-0) 1
- Elective in MARA ↑ 3
- Elective in MARA ↑ 3
- Elective (General) 4
- **Total** 14

| Total Hours | 120 |

### Notes for Maritime Administration

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://core.tamu.edu](http://core.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.

* - Designated writing intensive course.

↑ 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 ECON 202, ECON 203, ACCT 229, ACCT 230 and SCMT 301 as a graduation requirement. These courses may be repeated as necessary to meet this requirement, and the requirement applies to courses taken at TAMUG or offered for transfer from other institutions.

§ Students may satisfy the 9-hour Life and Physical Science requirement through any combination of one, three or four credit hour 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.

↑MARΑ Electives: Students are required to complete 18 credit hours of MARΑ electives. Students should choose 6 from the following courses:
- ACCT 315, ACCT 316, ECON 311, ECON 323, ECON 452, SCMT 336, MARΑ 342, MARΑ 401, MARΑ 402, MARΑ 416, MARΑ 474, MARΑ 475, MARΑ 450, MARΑ 460, MARΑ 470, MARΑ 484, MARΑ 485 or MARΑ 486, MARΑ 491, MARΑ 493

To earn the economics minor, the student's elective hours must include ECON 311, ECON 323 and ECON 452. For additional requirements of the economics minor, please see the website: [http://www.tamu.edu/academics/Minors.html](http://www.tamu.edu/academics/Minors.html).
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] 6S MARA
Campus: Galveston
College: Galveston Campus
Degree: Bachelor of Science
Level: Undergraduate
Majors: Maritime Administration
Departments: Maritime Administration
Catalog Term: Fall 2014 - Galveston
Evaluation Term: Summer 2015 - Galveston
Expected Graduation Date: 
Request Number: 442
Results as of: Jun 12, 2015
Minors: 
Concentrations:

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| Transfer: |
| 0.00      |
0

This is NOT an official evaluation.

Area Major Coursework (56.000 credits) - Not Met:

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Term Subject Course Title Attributes Credits Grade Source

1 of 4

6/12/2015 3:25 PM
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Area Supporting Coursework (16.000 credits) - Not Met

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Area Life and Physical Sciences (9.000 credits) - Not Met

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Area Language, Philosophy & Culture (3.000 credits) - Not Met

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Area: Work Not Applied - Met
Description: See advisor for acceptable substitutions.

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Area: Intl’l & Cult Diversity - Not Met

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6 hours required. Select from courses with the International and Cultural Diversity attribute (UDM3).

Total Credits and GPA 0.000 .00

unofficial evaluation

Area: Foreign Language - Not Met

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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 .00

unofficial evaluation

Area: GPA-Major - Not Met

Description: Must have a minimum GPA of 2.25 must be maintained on all major field of study courses.

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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
# Texas A&M Galveston

**Maritime Administration**

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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, MATH 242, MATH 401, MATH 402, MATH 416, MATH 424, MATH 435, MATH 450, MATH 460, MATH 470, MATH 484, MATH 485, MATH 489, MATH 491, MATH 493

Legend:  
* - Courses requiring a grade of "C" or better  
& - Writing Intensive if Section 900 course  
T - Credit by Transfer  
CR - Credit by Examination  
Q - Q-Drop  
R - Registered in Current Semester
TAMUG

CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARITIME ADMINISTRATION
BS IN MARITIME ADMINISTRATION AND
MASTER IN 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   ☐ 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):  
Maritime Administration (YAMUC)
Program Designation and Name:  
- ☐ B.S. in Maritime Administration and MMarL  
- ☐ MS in Maritime Administration and Logistics (3+2 program)

4. Brief description of changes:  
- add MARA 493 as a directed elective at the undergraduate level of this program, AND  
- add MARA 491 as a directed elective at the undergraduate level of this program

5. Reasons for change:  
MARA 493 has been approved as a permanent course AND  
MARA 491 has been approved as a permanent course

6. 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

7. c. Current degree program curriculum 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

8. b. If yes, degree program hours will change from:  
   to:  

8. c. Is the Texas Higher Education Coordinating Board Form attached?  
   - ☐ Yes   ☐ No

   http://www.thesc.state.tx.us/index.cfm?fn=object.sId=A0DF78A-5B92-EF11-75G6AD8B8F001D50

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/UC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the informal approval process only in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:  

[Signature]  
Department Head or Program Chair (Type Name & Title)
Date

Dean of College
Date

Chair, College Review Committee
Date

Chair, GC or UCC
Date

Questions regarding this form should be directed to Curriculum Services at 945-8201 or CurriculumServices@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 attain 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 (U4) during the fall of their fourth year and will be re-classified 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 416 in order to satisfy the TAMU intensive writing requirement.

### FRESHMAN YEAR

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### SOPHOMORE YEAR

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<tr>
<td>ACCT 229</td>
<td>Introduction to Accounting †</td>
<td>(3-0)</td>
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<tr>
<td>ECON 202</td>
<td>Principles of Economics †</td>
<td>(3-0)</td>
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<tr>
<td>MARA 301</td>
<td>Ocean Transportation I †</td>
<td>(3-0)</td>
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<tr>
<td>Elective in Communication</td>
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<tr>
<td>ACCT 230</td>
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<td>MARA 212</td>
<td>Business Law †</td>
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<tr>
<td>MARA 281</td>
<td>Seminar in Undergraduate Research Methods †</td>
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<td>MARA 304</td>
<td>Ocean Transportation II †</td>
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<td>POLS 207</td>
<td>State and Local Government</td>
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**JUNIOR YEAR**

**Fall Semester**

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<tr>
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<tbody>
<tr>
<td>MARA 373</td>
<td>Personnel Management †</td>
<td>3</td>
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<tr>
<td>MARA 421</td>
<td>Admiralty Law †</td>
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<td>SCMT 303</td>
<td>Statistical Methods †</td>
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<tr>
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**Spring Semester**

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<tr>
<td>MARA 440</td>
<td>Global Economy and Enterprise Management †**</td>
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<td>MGMT 481</td>
<td>Seminar in Management †</td>
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<td>Elective in Creative Arts</td>
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<tr>
<td>Elective in Language, Philosophy and Culture</td>
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<tr>
<td>Elective in MARA ††</td>
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**Total Hours to be completed prior to admission to the graduate courses**

92

**SENIOR YEAR/FIRST YEAR OF FIVE-YEAR PROGRAM**

**Fall Semester**

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<td>MARA 636</td>
<td>Managerial Decision Making</td>
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<td>MARA 641</td>
<td>Financial Management in Marine Transportation</td>
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<td>MARA 627</td>
<td>Marketing of Transportation Services</td>
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**Spring Semester**

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<td>MARA 623</td>
<td>Economics Issues in Shipping</td>
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<td>MARA 664</td>
<td>Production, Operations and Logistics Management</td>
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<td>MARA 610</td>
<td>International Strategic Planning and Implementation</td>
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**SECOND YEAR OF FIVE-YEAR PROGRAM**

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<td>MARA 624</td>
<td>Intermodal Transportation Operations</td>
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<tr>
<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
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<tr>
<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
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**Spring Semester**

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<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
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<tr>
<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
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<tr>
<td>Elective (General)</td>
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**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://core.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 required courses in the Maritime Administration major. These courses will be used to compute the major GPR. At the time of graduation, a MARA major must have a GPR of ≥ 2.25 in their major. A MARA major must achieve a grade of "C" or better in ECON 202, ECON 203, ACCT 229, ACCT 230 and SCMT 303 as a graduation requirement. These courses may be repeated as necessary to meet this requirement, and the requirement applies to courses taken at TAMUG 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.

V - MARA Electives: Students are required to complete 21 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 315, ACCT 316, ECON 311, ECON 322, ECON 452, SCMT 336, MARA 342, MARA 401, MARA 402, MARA 416, MARA 424, MARA 433, MARA 450, MARA 460, MARA 470, MARA 484, MARA 485 or MARA 489, MARA 491, MARA 493

* Choose 15 credit hours from the following graduate level MMAL 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 676.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Master of Maritime Administration and Logistics - 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 36 hrs must be completed with a minimum GPA of 3.000 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 (GR) 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 8 hrs of 685 (Directed Studies) may be used.
   c. Not more than 3 hrs of 690 (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 MENG 601 or MENG 603 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 Requirement: During one semester or 2 consecutive 5-week summer terms, 9 hrs of resident credit must be completed.

Research Proposal: 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 3.500 degree plan GPA and permission of the Advisory Committee, Department Head and the Office of Graduate Studies. The request to hold and announce 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 3.000 (listed as "Program GPA" below),
2. must have a Degree Plan GPA of at least 3.000 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.

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<thead>
<tr>
<th>Program</th>
<th>MML (Galv) 5yr program</th>
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<tbody>
<tr>
<td>Campus</td>
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<tr>
<td>College</td>
<td>Galveston Campus</td>
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<tr>
<td>Degree</td>
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<tr>
<td>Level</td>
<td>Graduate</td>
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<td>Majors</td>
<td>Maritime Adm &amp; Logistics</td>
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<tr>
<td>Departments</td>
<td>Maritime Administration</td>
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Catalog Term: Fall 2014 - Galveston
Evaluation Term: Summer 2015 - Galveston
Expected Graduation Date:
Request Number: 444
Results as of: Jun 12, 2015

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<th>Met Credits</th>
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<td>Required</td>
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</tr>
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<td>Used</td>
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Total Required: 0.000
Program GPA: No 3.00 .00
Overall GPA: Yes .00 .00

Other Course Information
Transfer: 0.000

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).
<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source Courses</th>
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**unofficial evaluation**

**Area**: Courses Not Applied - Not Met
**Description**: See Graduate Committee Chair or Graduate Advisor for acceptable changes to degree plan coursework.

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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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**unofficial evaluation**

**Area**: S/U Degree Plan Courses - Not Met
**Description**: A grade of S is required in all courses listed.

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<tbody>
<tr>
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**unofficial evaluation**

**Back to Display Options**
# Texas A&M Galveston
## Maritime Administration - Five Year Program - Thesis Option

### Freshman Year

#### Fall Semester
- **History Elective**
- **MARA 635 Ships and Shipping**
- **MATH 141 Business Math I**
- **POL 266 Nat'l Government**

#### Spring Semester
- **Communications Elective**
- **History Elective**
- **MARA 250 Mgmt Info Systems**
- **MATH 142 Business Math II**

### Sophomore Year

#### Fall Semester
- **ACCT 230 Acct Principles I**
- **ECON 202 Microeconomic Principles**
- **Communications Elective**
- **MARA 391 Ocean Transportation I**
- **Elective in Science**

#### Spring Semester
- **ACCT 230 Acct Principles II**
- **ECON 203 Macroeconomic Principles**
- **MARA 212 Business Law**
- **MARA 281 Seminar in Research**
- **MARA 392 Ocean Transportation II**

### Junior Year

#### Fall Semester
- **SCMT 363 Business Statistics**
- **MARA 375 Human Resources Mgmt**
- **MARA 421 Admiralty Law**
- **Elective in MARA** (must take MARA 424 to satisfy writing intensive requirement)

#### Spring Semester
- **Elective in Creative Arts**
- **MARA 440 Acct Global Econ & Entr. Mgmt**
- **MARA 481 Senior Seminar**
- **Elective in Language, Philosophy & Culture**

### Senior Year

#### Fall Semester
- **MARA 635 Mgmt Decision Making**
- **MARA 641 Fl. Mgmt in Marine Trans**
- **MARA 637 Mgmt of Trans Services**
- **Elective in MARA**
- **Elective in MARA**

#### Spring Semester
- **MARA 623 Econ Issues in Shipping**
- **MARA 610 Instr Strategic Planning**
- **MARA 644 Prod. Op & Logistic Mgmt**
- **Elective in MARA**
- **MARA 691**

### Fifth Year

#### Fall Semester
- **MARA 624 Intermodal Trans. Opt**
- **Graduate Level MMAL Elective**
- **Graduate Level MMAL Elective**
- **Graduate Level MMAL Elective**
- **Graduate Elective**

#### Spring Semester
- **Graduate Level MMAL Elective**
- **Graduate Level MMAL Elective**
- **Graduate Level MMAL Elective**
- **General Elective**
- **General Elective**

### Comments:
- Students may satisfy the 9 credit hour life and physical science requirement through any combination of one, two or four credit hour courses.
- There are 6 hours that must be taken in the computer field.
- **Choose from MARA electives: ACCT 315, 316, ECON 311, 323, 357, SCMT 336, MARA 342, 401, 402, 416, 435, 460, 484, 485, 489, 491, 493**
- **Choose from Graduate Level MMAL electives: MARA 650, 652, 640, 616, 658, 660, 670, 672, MARS 620, 640, 660, 676** MARA 691

**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 000 course
Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Master of Maritime Administration and Logistics - 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 36 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 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 2 hrs taken in a non-degree seeking (NE) 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 646 (Professional Internship) may be used.
   b. Not more than 9 hrs of 685 (Directed Studies) may be used.
   c. Not more than 3 hrs of 690 (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 FYEN 601 or GERM 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 Requirement: During one semester or 2 consecutive 5-week summer terms, 9 hrs of resident credit must be completed.

Final Examination: A final comprehensive examination is not required.

Program: MML (Grad) Syr program
Campus: Galveston
College: Galveston Campus
Degree: Master of Maritime Admin & Log
Level: Graduate
 Majors: Maritime Admin & Logistics
Departments: Maritime Administration

| Catalog Term : | Fall 2014 - Galveston |
| Evaluation Term : | Summer 2015 - Galveston |
| Expected Graduation Date : | |
| Request Number : | 443 |
| Results as of : | Jun 12, 2015 |

Met Credits Courses

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This is NOT an official evaluation.

Area : Courses for Degree Plan SPR - 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 Required Term Subject Course Title Attribute Credits Grade Source

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No A. No Approved Degree Plan

unofficial evaluation

Area : Courses Not Applied - Met

<p>| Total Credits and GPA | 0.00 | .00 |</p>
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unofficial evaluation

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unofficial evaluation

Back to Display Options
# Texas A&M Galveston
## Maritime Administration - Five Year Program Non-Thesis Option

### Course Schedule

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### Comments:
- Students may satisfy the 9 credit hour life and physical science requirement through any combination of one, three or four credit hour courses.
- The 6 hours communications electives requirement can be satisfied at TAMUG using COMM 203, ENGL 194 or ENGL 203.
- Choose from MATH electives: ACCT 315, 316, ECON 311, 323, 352, SCMT 336, MATH 342, 401, 402, 416, 435, 460, 484, 485, 489, 491, 493
- Choose from Graduate Level MMAL electives: MATH 530, 532, 610, 616, 658, 660, 694, 697, 670, 672, MATH 629, 640, 660, 676

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

Revised: 5/21/15
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARITIME ADMINISTRATION
MINOR IN MARITIME ADMINISTRATION
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 (TAMU-G)

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:
   add MARA 493 MS, a directed studies elective and add MARA 491 as a directed studies elective

6. Rationale for change:
   MARA 491 has been approved as a permanent course. MARA 491 has been approved as a permanent course.

---

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.texas.edu/index.edn웃objectid=AOEP97FA-9A92-4111-2756AD338BP1JD60
   ☑ 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-UCO/VCC, 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 to ensure timely implementation.

Approval recommended by:

JOAN P. MUSIKI  07/13/15
Department Head or Program Chair

Date

Dean or College:

Date

Chair, College Review Committee

Date

Chair, GC or UCC

Date

Questions regarding this form should be directed to Curriculum Services at 845-8201 or wadmanwilliams@tamu.edu
Curriculum Services: 64/14
Minor in Maritime Administration

Students in other majors may establish a minor field of study in Maritime Administration through completing 18 credits in the following courses. A minimum GPR of 2.25 for the 18 credit hours is required.

Required Courses (total 12 required credits):
- ACCT 229 Introduction to Accounting
- MARA 301 Ocean Transportation I
- MARA 363 Managerial Process
- MARA 416 Port Operations, Administration and Economics

Elective Courses (total 6 required credits):
- MARA 304 Ocean Transportation II
- MARA 342 Managerial Maritime Finance
- MARA 401 Broking and Chartering
- MARA 402 Inland Waterways
- MARA 421 Admiralty Law
- MARA 424 Economics of Transportation
- MARA 435 Labor Law
- MARA 440 Global Economy and Enterprise Management
- MARA 450 Maritime Supply Chain Management
- MARA 460 Management Systems and Control
- MARA 470 Environmental Law
- MARA 484 Management Internship
- MARA 485 Directed Studies
- MARA 489 Special Topics

Substitutions may be authorized by the Head, Department of Maritime Administration.

Minor in Ocean and Coastal Resources

Students in other majors may establish a minor field of study in Ocean and Coastal Resources through the completion of at least 16 hours of the following courses:

Required Courses (total 7 required credits):
- MARS 280 Coastal and Ocean Resources
- GEOL 104 Physical Geology
- or OCNG 251/252 Oceanography/Oceanography Laboratory

Select 3-6 hours from the following courses:
- MARS 410 Introduction to Physical Oceanography
- MARS 430 Introduction to Geological Oceanography
- MARS 431 Geological Oceanography - Earth's Climate
- MARS 440 Introduction to Chemical Oceanography
- OCNG 420 Introduction to Biological Oceanography

Select 3-7 hours from the following courses:
- MARS 370 Coastal Processes
- MARS 423 Ecological Economics
- MARS 425/426 Coastal Wetlands Management (and Lab)
- MARS 432 Peak Oil, Global Warming and Resource Scarcity
- MARA 470 Environmental Law

Minors offered at the TAMUG Campus through TAMU-College Station academic departments

Students may elect to earn a number of minors that are taught at the Galveston campus through TAMU-College Station academic departments. A complete list of minors is at the website: http://www.tamug.edu/academics/Minors.html.
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.

**Area: Major Coursework (81.00C credits) - Not Met**

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**Must make a grade of 'C' or better.**

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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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Total Credits and GPA 0.000 .00

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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

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**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].*

**unofficial evaluation**

**Area : Social and Behavioral Science ( 3.000 credits ) - Not Met**

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**unofficial evaluation**

**Area : Government / Political Science ( 12.000 credits ) - Not Met**

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*Select from any course with the [KHIS] attribute.*

https://compass-ssb.tamu.edu/3ls/PROD/bwckapp.P_VerifyDispEvalViewOption

6/18/2015
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unofficial evaluation

Area : Directed Electives (12.000 credits) - Not Met

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Select 3 hrs with advisor's approval. Approved electives include but are not limited to MARA 363, 401, 402, 435, 450; MART 407, 398, 311, 489.

unofficial evaluation

Area : Maritime Administration Minor (18.000 credits) - Not Met

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Select from MARA 304, 342, 401, 402, 421, 424, 440, 450, 460, 484, 485, 489.

unofficial evaluation

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption

6/18/2015
unofficial evaluation

Area: University Writing Requirement - Not Met

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Select two courses with the Writing Requirement [UWRT] attribute.

Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met

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<th>Condition</th>
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6 hours required. Select from courses with the International and Cultural Diversity attribute [UICD].

Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Foreign Language - Not Met

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
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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

unofficial evaluation

Area: GPR-Major - Not Met

Description: A minimum GPR of 2.250 must be maintained on all major field of study courses.

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<th>Required Courses</th>
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<td>A.</td>
<td>Major GPR 63+hrs</td>
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unofficial evaluation

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<tr>
<th>Area</th>
<th>Residence Requirement - Not Met</th>
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<tbody>
<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>Residence - Major 12hrs</td>
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<td>Residence 24hrs</td>
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unofficial evaluation

Back to Display Options
DECLARATION OF MINOR IN MARITIME ADMINISTRATION

A student may establish a minor field of study in Maritime Administration through completing 18 credits as follows:

Required Courses (12 Credits):
ACCT 229 – Introductory Accounting
MARA 301 – Ocean Transportation I
MARA 363 – Managerial Processes
MARA 416 – Port Operations, Administration and Economics

Elective Courses (6 Credits):
MARA 304 – Ocean Transportation II
MARA 424 – Economics of Transportation
MARA 440 – Global Economy & Enterprise Mgmt
MARA 450 – Maritime Supply Chain Mgmt.
MARA 460 – Management Systems of Control
MARA 401 – Brokerage and Chartering
MARA 342 – Maritime Finance
MARA 402 – Inland Waterways
MARA 421 – Admiralty Law
MARA 435 – Labor Law and Policy
MARA 493 – International Maritime Mgmt Experience
MARA 491 – Research in Maritime Administration
MARA 466 – Strategic Management
MARA 470 – Environmental Law

Substitutions may be authorized by the Department Head of Maritime Administration.
SPECIAL CONSIDERATION
SPECIAL CONSIDERATION

MAYS BUSINESS SCHOOL
BBA IN BUSINESS ADMINISTRATION
REQUEST FOR A NEW DEGREE PROGRAM
July 15, 2015

MEMORANDUM

TO: Tim Scott, Chair, University Curriculum Committee

FROM: Martha Louder, Associate Dean, Mays Business School

SUBJECT: Proposal for BBA degree in Business Administration

Mays Business School is proposing a BBA degree in Business Administration. This proposal has been reviewed and approved by the Mays Curriculum Committee. We are excited by the opportunities this will afford Mays Business School and Texas A&M University.

I am submitting this proposal for consideration by the University Curriculum Committee. Please contact me if you have questions or need additional information.

Attachments:

  - Program Checklist
  - Briefing and Minute Order
  - Program Review Outline
  - New Program Request Form
  - Certification Form
Texas A&M University
New Certificate, Bachelors, Masters, or Doctoral Program
Undergraduate • Graduate • Professional • Proposal Checklist •

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.) BBA
Title of proposed program: Business Administration
Proposed CIP Code (if known): 52.0101.00

Brief program description (provide a catalog description for undergraduate and graduate certificates):
The BBA degree in Business Administration enables students to combine their interest in several areas of business into an individualized degree plan. Students will consult with an academic advisor to develop their degree plan.

Minimum program semester credit hours (SCH) Certificates - 12 hours* Bachelors - 120 hours Masters - 30 hours

Proposed program hours: ______ 120 ______

*12 hours minimum to appear on transcript

Certificate Programs ☐ Embedded Students take coursework that will result in a degree and certificate being earned at the same time. ☐ Standalone Non-degree seeking students take coursework to earn a certificate only (no degrees are awarded).

Off-Campus or Distance Delivery

% of Program a student can take off-campus or through Distance Education

Program Start Date SACSCOC Approval** When Provost needs to inform SACSCOC
☑ 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 College Station
☐ 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):

Kris Morley

Name

Director, Business Honors

Title

kmorley@mays.tamu.edu

Email

979.862.8975

Phone

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.

Signature, Department Head or Interdisciplinary Program Chair

Typed or Printed Name

Chair, College Review Committee

Dean of College

Date

Date

Date

Date

Date

Date

Signature, Department Head or Interdisciplinary Program Chair (if joint program)

Typed or Printed Name

Chair, College Review Committee

Dean of College

Chair, University Curriculum Committee or Graduate Council

Date

Date

Date

Date

Additional Approvals Required: Faculty Senate and President.
Agenda Item No.

AGENDA ITEM BRIEFING

Submitted by: Andrew Young, President/CEO
Texas A&M University

Subject: Approval of a New Bachelor of Business Administration Degree Program with a major in Business Administration and Authorization to Request Approval from the Texas Higher Education Coordinating Board

Proposed Board Action:

Approve the establishment of a new degree program at Texas A&M University leading to a Bachelor of Business Administration in Business Administration, authorize the submission of this degree program to the Texas Higher Education Coordinating Board (THECB) for approval and certify that all applicable THECB criteria have been met.

Background Information:

The Business Administration degree program will prepare students for a wide range of careers in fields that require a general study of business, but not the depth of the existing majors in business. The 120-hour curriculum mirrors that of the other business degree plans but allows more flexibility in the choice of upper-level business electives. Students will consult with an academic advisor to develop their degree plan.

The proposed Business Administration major enables students to combine their interests in several areas of business into an individualized degree plan. A customized combination of business courses is not possible through existing degree plans. This flexibility is attractive to students who have a particular career path or post-baccalaureate degree in mind. Examples of students who have stated an interest in this major are those with diverse learning objectives, or with career goals such as working in the family business, becoming an educator, or attending law school or medical school.

The initial target group of students for the major are those participating in Business Honors. These students often seek options beyond a traditional major. The University of Texas currently has a Bachelor of Administration in Business Administration available to students in their Business Honors Program. Baylor University has a BBA in Baylor Business Fellows which allows students to customize their degree plans. Both of these programs are similar to this proposal and the addition of the degree plan at Texas A&M will help ensure that our university remains a top choice for high-achieving students interested in a business degree.

A&M System Funding or Other Financial Implications:

Costs for this action are minimal because existing faculty and courses will be used. The selection process currently in place for the Business Honors Program will be used to add new students each year but the major will not add to the number of students in the college or at the university.
Members, Board of Regents  
The Texas A&M University System

Subject: Approval of a New Bachelor of Business Administration Degree Program with a Major in Business Administration, and Authorization to Request Approval from the Texas Higher Education Coordinating Board

I recommend adoption of the following minute order:

"The Board of Regents of The Texas A&M University System approves the establishment of a new degree program at Texas A&M University leading to a Bachelor of Business Administration degree (with a major in Business Administration.

The Board also authorizes submission of Texas A&M University's new degree program request to the Texas Higher Education Coordinating Board for approval and hereby certifies that all applicable criteria of the Coordinating Board have been met."

Respectfully submitted,

Dr. Michael K. Young, President

Approval Recommended: __________________________
John Sharp
Chancellor

Approved for Legal Sufficiency: __________________________
Ray Bonilla
General Counsel

Billy Hamilton
Executive Vice Chancellor and
Chief Financial Officer
James R. Hallmark, Ph.D.
Vice Chancellor for Academic Affairs
Texas A&M University

Bachelor of Business Administration
with a major in Business Administration
(CIP 52.0101.00)

Program Review Outline

BACKGROUND & PROGRAM DESCRIPTION

Administrative Unit: Mays Business School

The Business Administration degree program will prepare students for a wide range of careers in fields that require a general study of business but not the depth of the existing majors in business.

The proposed Business Administration major enables students to combine their interests in several areas of business into an individualized degree plan. A customized combination of business courses is not possible through existing degree plans. This flexibility is attractive to students who have a particular career path or post-baccalaureate degree in mind. Examples of students who have stated an interest in this major are those with diverse learning objectives, or with career goals such as working in the family business, becoming an educator, or attending law school or medical school. The initial target group of students for the major are those participating in Business Honors. These students often seek options beyond a traditional major.

The 120-hour curriculum mirrors that of the other business degree plans but allows more flexibility in the choice of upper-level business electives. Students will consult with an academic advisor to develop their degree plan.

The proposed implementation date is spring semester of 2016.

Texas A&M University certifies that the proposed new degree program meets the criteria under the 19 Texas Administrative Code, Section 5.45 in regards to need, quality, financial and faculty resources, standards and costs. New costs during the first five years will not exceed $2 million.

I. NEED

A. Employment Opportunities

According to the U.S. Bureau of Labor Statistics, demand for workers with undergraduate business degrees is strong and will continue to grow. Many jobs only require a bachelor’s degree and some jobs are projected to grow at double and even triple the national average of other occupations during the next decade. Employers who hire Mays graduates are currently expressing interest in students with this major.

B. Projected Enrollment
The Business Administration major will not add to the number of students in the college or university. Current enrollment numbers for Mays Business School will remain the same. Students admitted to Mays will apply for the major and be selected through an application and selection process. Approximately 105 new students will be added each year and, accounting for attrition, a total cumulative headcount of about 350 students in the program.

C. Existing State Programs

The University of Texas currently has a Bachelor of Administration in Business Administration available to students in their Business Honors Program. While not a state university, Baylor University has a BBA in Baylor Business Fellows which allows students to customize their degree plans. Both of these programs are similar to this proposal and the addition of the degree plan at Texas A&M will help ensure that our university remains a top choice for high-achieving students interested in a business degree.

II. QUALITY & RESOURCES

A. Faculty

Sixteen faculty members will teach in the program. Ten have terminal degrees.

B. Program Administration

The program is under the direct administration of the Associate Dean, Undergraduate Program.

C. Other Personnel

A program director and academic advisor are in place.

D. Supplies, Materials

No additional supplies or materials are required.

E. Library

The library's current holdings of books, periodicals, and on-line services are adequate.

F. Equipment, Facilities

The current space and building facilities are adequate to support the program and no new facilities will be needed.

Planned annual purchases will provide equipment and materials needed for teaching and administrative purposes.

G. Accreditation
Mays Business School is accredited by AACSB. AACSB provides accreditation for the Bachelor of Business Administration degree as a whole, not to each individual major; therefore no additional accreditation is needed.

### III. NEW 5 YEAR COSTS & FUNDING SOURCES

All personnel, facilities and equipment, library resources, supplies and materials, administration, and other costs related to the program are currently in place.

<table>
<thead>
<tr>
<th>NEW FIVE-YEAR COSTS</th>
<th>SOURCES OF FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Formula Income</td>
</tr>
<tr>
<td>Program Administration</td>
<td>Statutory Tuition</td>
</tr>
<tr>
<td>Graduate Assistants</td>
<td>Reallocation</td>
</tr>
<tr>
<td>Supplies &amp; Materials</td>
<td>Designated Tuition</td>
</tr>
<tr>
<td>Library &amp; IT Resources</td>
<td>Other Funding:</td>
</tr>
<tr>
<td>Equipment, Facilities</td>
<td>List other funding</td>
</tr>
<tr>
<td>Other</td>
<td>Estimated 5-year Revenues</td>
</tr>
<tr>
<td>Estimated 5-Year Costs</td>
<td>$</td>
</tr>
</tbody>
</table>
Request Form for Bachelor's and Master's Degrees

Following Board action on July 30, 2009, new bachelor’s and master’s programs that meet the following criteria are automatically approved (Chapter 5, Subchapter C, Section 5.44):

- The program has institutional and governing board approval;
- the program complies with the Standards for Bachelor’s and Master’s Programs;
- adequate funds are available to cover the costs of the new program;
- new costs during the first five years of the program will not exceed $2 million;
- the program is a non-engineering program (i.e., not classified under CIP code 14); and
- The program will be offered by a university or health-related institution.

A new bachelor’s or master’s degree program that meets these criteria may be requested using the Certification Form for New Bachelor’s and Master’s Programs and is automatically approved if no objections are received during the 30-day public comment period. The institution’s program inventory will be updated accordingly and a letter of approval will be sent to the institution/System. All other requests for new bachelor’s or master’s programs must be submitted using the Form for Requesting a New Bachelor’s or Master’s Degree Programs.

I. Need

NEEDS ASSESSMENT

Useful resources for developing a degree program proposal can be found at: http://www.theecb.state.tx.us/index.cfm?objectid=C52788D7-DBFD-5C19-BFA9642A88E40A48&fleshcache=1&showdraft=1

Use the THECB website; to check program inventory for existing programs within the state http://www.theecb.state.tx.us/InteractiveTools/ProgramInventory/

A. Job Market Need – Provide short- and long-term evidence of the need for graduates in the job market.

According to the U.S. Bureau of Labor Statistics, demand for workers with undergraduate business degrees is strong and will continue to grow. Many jobs only require a bachelor’s degree and some jobs are projected to grow at double and even triple the national average of other occupations during the next decade.

Employers who hire Mays graduates are currently expressing interest in students with this major.

B. Student Demand – Provide short- and long-term evidence of demand for the program.

Student demand currently exists. Students in the major will also be participating in the Business Honors Program. Over the last ten years, the number of applications has almost tripled, from 325 in 2005 to 981 in 2015.

Students in the Business Honors Program participated in a survey and were invited to attend a focus group concerning the degree plan. Students like the flexibility offered by the proposed degree. Students with a strong interest in international business would elect to take more international business classes, participate in a reciprocal exchange and pursue an internship abroad. Students preparing for graduate school, law school, and medical school were particularly interested in the ability to choose from a wide variety of upper-level business and non-business courses and/or participation in a multi-semester research project.

Additionally, many of these high-achieving students choose to attend institutional competitors because of degree plans that offer this type of flexibility. The University of Texas’s BBA in
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.*)

The Business Administration major will not add to the number of students in the college or university. Current enrollment numbers for Mays Business School will remain the same. Students admitted to Mays will apply for the major and be selected through an application and selection process.

<table>
<thead>
<tr>
<th>Year</th>
<th>Change of Major/Transfers</th>
<th>New Students</th>
<th>Attrition</th>
<th>Graduation</th>
<th>Cumulative Headcount</th>
<th>Cumulative* FTES (New only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>372</td>
<td>83</td>
<td>35</td>
<td>70</td>
<td>350</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>85</td>
<td>35</td>
<td>70</td>
<td>350</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>20</td>
<td>85</td>
<td>35</td>
<td>70</td>
<td>350</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>20</td>
<td>85</td>
<td>35</td>
<td>70</td>
<td>350</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>20</td>
<td>85</td>
<td>35</td>
<td>70</td>
<td>350</td>
<td>0</td>
</tr>
</tbody>
</table>

* These numbers will dictate the projected formula income in the funding source portion in Section III, Anticipated New Formula Funding.

**FTES = full-time equivalent student.**

Per CB guidelines, 1 FTES = 15 sch for UG, 12 sch for M, and 9 sch for D

II. **Quality**

A. **Degree Requirements** – Use this table to show the degree requirements of the program. (*Modify the table as needed; if necessary, replicate the table for more than one option.*)
New Program Request Form for Bachelor's and Master's Degrees
Page 3
For bachelor's degree:

<table>
<thead>
<tr>
<th>Category</th>
<th>Semester Credit Hours</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core Curriculum (bachelor's degree only)</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Required Courses</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Prescribed Electives</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Free Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Other (Specify, e.g., internships, clinical work)</td>
<td>(if not included above)</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

For Master's degree programs:

B. Curriculum – Use these tables to identify the required courses and prescribed electives of the program. 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.)

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Required Courses</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 202</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 203</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 125H</td>
<td>Business Learning Community</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 205H</td>
<td>Integrated Worklife Competencies</td>
<td>3</td>
</tr>
<tr>
<td>BUSN 484</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 466H</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5 of the following 9 courses must be taken as honors</td>
<td></td>
</tr>
<tr>
<td>ACCT 229</td>
<td>Introductory Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 230</td>
<td>Introductory Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FINC 341</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 303</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 364</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 211</td>
<td>Legal and Social Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 363</td>
<td>The Management Process</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 321</td>
<td>Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must take 6 hours of International Electives chosen from the list of courses approved for all business majors. An additional 15 hours of upper-level business coursework must be taken from the following list of courses.

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Prescribed Elective Courses</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>International</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 315</td>
<td>Intermediate Accounting for Non-acct. Majors I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 316</td>
<td>Intermediate Accounting for Non-acct. Majors II</td>
<td>3</td>
</tr>
</tbody>
</table>

AAR/Webmasters Updated 11/30/2010
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 327</td>
<td>Financial Reporting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 328</td>
<td>Financial Reporting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 329</td>
<td>Cost Management and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 405</td>
<td>Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 407</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 408</td>
<td>Internal Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 410</td>
<td>Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 425</td>
<td>Corporate Tax Planning</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 426</td>
<td>Taxation of Low-Income Filers</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 427</td>
<td>Accounting and Financial Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 440</td>
<td>Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 445</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 447</td>
<td>Financial Statement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 450</td>
<td>Accounting Ethics</td>
<td>3</td>
</tr>
<tr>
<td>FINC 351</td>
<td>Investment Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FINC 361</td>
<td>Managerial Finance I</td>
<td>3</td>
</tr>
<tr>
<td>FINC 368</td>
<td>Trade Floor Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FINC 371</td>
<td>Real Estate Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>FINC 381</td>
<td>Money and Capital Markets</td>
<td>3</td>
</tr>
<tr>
<td>FINC 422</td>
<td>Applied Investment Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FINC 423</td>
<td>Options and Financial Futures</td>
<td>3</td>
</tr>
<tr>
<td>FINC 424</td>
<td>Trading Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FINC 425</td>
<td>Active Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FINC 426</td>
<td>Trading Markets</td>
<td>3</td>
</tr>
<tr>
<td>FINC 427</td>
<td>Titans of Investing</td>
<td>3</td>
</tr>
<tr>
<td>FINC 428</td>
<td>Fixed Income Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FINC 435</td>
<td>Managerial Finance II</td>
<td>3</td>
</tr>
<tr>
<td>FINC 443</td>
<td>Valuation</td>
<td>3</td>
</tr>
<tr>
<td>FINC 445</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINC 446</td>
<td>Technical Analysis of Financial Markets</td>
<td>3</td>
</tr>
<tr>
<td>FINC 447</td>
<td>Financial Statement Analysis</td>
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</tr>
<tr>
<td>FINC 448</td>
<td>Advanced Investments</td>
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<tr>
<td>FINC 449</td>
<td>Financial Modeling</td>
<td>3</td>
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<tr>
<td>FINC 462</td>
<td>Commercial Bank Management</td>
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</tr>
<tr>
<td>FINC 463</td>
<td>Seminar in Commercial Banking</td>
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<tr>
<td>FINC 465</td>
<td>Seminar in Investment Banking</td>
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</tr>
<tr>
<td>FINC 466</td>
<td>Wall Street, Investment Baking</td>
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</tr>
<tr>
<td>FINC 472</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINC 473</td>
<td>Real Estate Appraisal</td>
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<td>FINC 475</td>
<td>Real Estate Investment Analysis</td>
<td>3</td>
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<tr>
<td>ISYS 310</td>
<td>Network Communications and Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 315</td>
<td>Database Programming</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 320</td>
<td>Business Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 325</td>
<td>Business Object Oriented Programming w/ Java Credits</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 410</td>
<td>Management of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 415</td>
<td>Information Systems Capstone Project</td>
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<tr>
<td>ISYS 420</td>
<td>Web Enabled Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 425</td>
<td>Complex Business Application Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 450</td>
<td>Business Intelligence and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 455</td>
<td>Business Information Security and Risk Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 460</td>
<td>E-Services</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 372</td>
<td>Advanced Concepts in Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 373</td>
<td>Managing Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 422</td>
<td>Management Consulting</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 424</td>
<td>Organizational Design, Change, &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
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<td>MGMT 425</td>
<td>Human Resource Selection</td>
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<tr>
<td>MGMT 427</td>
<td>Human Resource Compensation</td>
<td>3</td>
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<tr>
<td>MGMT 429</td>
<td>Labor and Industry</td>
<td>3</td>
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<tr>
<td>MGMT 430</td>
<td>Employment Discrimination Law</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 432</td>
<td>Managing the Nonprofit Organization</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 435</td>
<td>Labor Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 439</td>
<td>Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 440</td>
<td>Creativity and Innovation in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 450</td>
<td>International Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 452</td>
<td>International Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 453</td>
<td>Emerging Economies: BRIC</td>
<td>3</td>
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<td>MGMT 457</td>
<td>Global Entrepreneurship</td>
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<td>MGMT 460</td>
<td>Managing Projects</td>
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</tr>
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<td>MGMT 461</td>
<td>Entrepreneurship and New Ventures</td>
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<td>MGMT 464</td>
<td>Political Environment of Business</td>
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<td>MGMT 465</td>
<td>Corporate Governance</td>
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<td>MGMT 470</td>
<td>Entrepreneurial Small Business</td>
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<td>MGMT 475</td>
<td>Leadership Development</td>
<td>3</td>
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<tr>
<td>MKTG 322</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 323</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 325</td>
<td>Retailing Concepts &amp; Policies</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 326</td>
<td>Strategic Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 335</td>
<td>Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 345</td>
<td>Social Media and Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 347</td>
<td>Advertising and Creative Marketing Comm.</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 401</td>
<td>Global Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 402</td>
<td>International Marketing: Study Abroad</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 403</td>
<td>International Market Entry Strategies</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 404</td>
<td>Advanced Excel for Marketing Managers</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 425</td>
<td>Retail Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 426</td>
<td>Advanced Retail Case Study</td>
<td>3</td>
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<tr>
<td>MKTG 430</td>
<td>Marketing Consulting</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Marketing Analytics</td>
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<tr>
<td>MKTG 432</td>
<td>Corporate Social Responsibility</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 435</td>
<td>Advanced Selling</td>
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<tr>
<td>MKTG 436</td>
<td>Sales Management</td>
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</tr>
<tr>
<td>MKTG 438</td>
<td>Strategic Digital Marketing</td>
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<td>MKTG 440</td>
<td>Services Marketing</td>
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</tr>
<tr>
<td>MKTG 442</td>
<td>Product Management</td>
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<tr>
<td>MKTG 445</td>
<td>Account Planning and Research</td>
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</tr>
<tr>
<td>MKTG 447</td>
<td>Advertising Procedures</td>
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</tr>
<tr>
<td>MKTG 448</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 305</td>
<td>Intermediate Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 335</td>
<td>Sourcing and Procurement</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 336</td>
<td>Decision Support Systems</td>
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<tr>
<td>SCMT 340</td>
<td>Supply Chain Management</td>
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<td>SCMT 345</td>
<td>Business Process Design</td>
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</tr>
<tr>
<td>SCMT 361</td>
<td>Operations Planning and Control</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 375</td>
<td>Supply Chain Security</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 380</td>
<td>Lean Business Systems</td>
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<tr>
<td>SCMT 464</td>
<td>Advanced Supply Chain Management</td>
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</tr>
<tr>
<td>SCMT 465</td>
<td>Information Technology for Supply Chain Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 468</td>
<td>Enterprise Resource Planning</td>
<td>3</td>
</tr>
</tbody>
</table>
C. Faculty

a. 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.)

<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>* Louder, Martha</td>
<td>PhD in Accounting&lt;br&gt;Auburn University</td>
<td>BUSN 125</td>
<td>100%</td>
</tr>
<tr>
<td>Associate Dean and Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin, James</td>
<td>DBA in Accounting&lt;br&gt;Indiana University</td>
<td>ACCT 229H</td>
<td>100%</td>
</tr>
<tr>
<td>Department Head and Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strawser, Jerry</td>
<td>PhD in Accounting&lt;br&gt;Texas A&amp;M University</td>
<td>ACCT 229H</td>
<td>100%</td>
</tr>
<tr>
<td>Texas A&amp;M CFO and Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McGowan, Annie</td>
<td>PhD in Accounting&lt;br&gt;University of North Texas</td>
<td>ACCT 230H</td>
<td>67%</td>
</tr>
<tr>
<td>Assoc. Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sriskandarajah, Chelliah</td>
<td>PhD in Automation and Operations Research&lt;br&gt;National Polytechnic Institute of Grenoble, France</td>
<td>SCMT 364H</td>
<td>50%</td>
</tr>
<tr>
<td>Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Araujo, Andre'</td>
<td>PhD in Operations Management&lt;br&gt;University of Oklahoma</td>
<td>ISYS 210H</td>
<td>33%</td>
</tr>
<tr>
<td>Clinical Asst. Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rangan, Sudarsan</td>
<td>PhD in Operations Management&lt;br&gt;University of Alabama</td>
<td>SCMT 303H</td>
<td>33%</td>
</tr>
<tr>
<td>Clinical Asst. Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parish, Janet</td>
<td>PhD in Marketing&lt;br&gt;University of Alabama</td>
<td>MKTG 321H</td>
<td>33%</td>
</tr>
<tr>
<td>Clinical Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hailey, Camille</td>
<td>J.D.&lt;br&gt;South Texas College of Law</td>
<td>MGMT 211H</td>
<td>50%</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ndufor, Hermann</td>
<td>PhD in Management Sciences&lt;br&gt;University of Wisconsin</td>
<td>MGMT 466H</td>
<td>33%</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td></td>
<td></td>
<td></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>Allen, Natalie</td>
<td>MS, Accounting&lt;br&gt;Texas A&amp;M University</td>
<td>ACCT 230H</td>
<td>12%</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knoop, Jacqueline</td>
<td>MS, Accounting&lt;br&gt;Texas A&amp;M University</td>
<td>ACCT 229</td>
<td>12%</td>
</tr>
<tr>
<td>Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Koufteros, Beth</td>
<td>MSOD&lt;br&gt;Bowling Green State University</td>
<td>MGMT 363H</td>
<td>50%</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guyton, Sally</td>
<td>MBA&lt;br&gt;University of Texas</td>
<td>FINC 341H</td>
<td>25%</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VanAlstyne, John</td>
<td>MS, Marketing&lt;br&gt;Texas A&amp;M</td>
<td>BUSN 205H</td>
<td>80%</td>
</tr>
<tr>
<td>Executive Professor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morley, Kristine</td>
<td>MS, Educational Human Resource Development&lt;br&gt;Texas A&amp;M University</td>
<td>BUSN 125H, 484</td>
<td>100%</td>
</tr>
<tr>
<td>Lecturer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
b. What impact will the new program have on current programs in regards to faculty resources?

All faculty members are currently teaching these courses and no adjustments in teaching load are required.

1. How will the teaching load of current faculty be impacted?
2. How will the teaching load of faculty assigned a portion of their time to the new program be covered?

D. Students – Describe general recruitment efforts and admission requirements. In accordance with the institution’s Uniform Recruitment and Retention Strategy, describe plans to recruit, retain, and graduate students from underrepresented groups for the program.

Interested students will use ApplyTexas to apply to the program. Applications are reviewed by the Office of Admissions for admission to Mays Business School. A separate review process at Mays Business School is used to select students for this program.

An active recruitment and retention process is currently in place. Students receive phone calls and are invited to events in their hometown and/or at Mays Business School. An Academic Advisor is assigned to students in the program. Recruitment, retention, and graduation numbers are positive.

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 library resources are required. The library’s current holdings of books, periodicals, and on-line services are adequate.

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.

All business classes are held in the Wehner Building. The building features classrooms which accommodate the variety of teaching methods used by the program faculty and each classroom is equipped with state-of-the-art technology and multi-media equipment. The current space and building facilities are adequate to support the program and no renovations or new facilities will be needed.

Planned annual purchases will provide equipment and materials needed for teaching and administrative purposes. No additional new equipment will be needed to support the program.

G. Accreditation – If the discipline has a national accrediting body, describe plans to obtain accreditation or provide a rationale for not pursuing accreditation.
Mays Business School is accredited by AACSB. AACSB provides accreditation for the Bachelor of Business Administration degree as a whole, not to each individual major; therefore no additional accreditation is needed.

H. Evaluation – Describe the evaluation process that will be used to assess the quality and effectiveness of the new degree program.

Assessment will be conducted using the Office of Institutional Assessment process.

### III. Costs and Funding

**New Five-Year Costs and Funding Sources** - Use this table to show new five-year costs and sources of funding for the program. (Please refer to reference and resources at end of document in developing information)

All personnel, facilities and equipment, library resources, supplies and materials, administration, and other costs related to the program are currently in place.

<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>Faculty</td>
<td>$0</td>
</tr>
<tr>
<td>Administration</td>
<td>$0</td>
</tr>
<tr>
<td>Graduate Assistants</td>
<td>$0</td>
</tr>
<tr>
<td>Clerical/Staff</td>
<td>$0</td>
</tr>
<tr>
<td>Other Personnel</td>
<td>$0</td>
</tr>
<tr>
<td>Facilities, Equipment &amp; IT Resources</td>
<td>$0</td>
</tr>
<tr>
<td>Supplies and Materials</td>
<td>Anticipated New Formula Funding(^3)</td>
</tr>
<tr>
<td>Library</td>
<td>Special Item Funding</td>
</tr>
<tr>
<td>Other(^2)</td>
<td>Designated Tuition</td>
</tr>
<tr>
<td>Total Costs</td>
<td>Other(^4)</td>
</tr>
</tbody>
</table>

1. Report costs for reassigned faculty, new faculty hires, graduate assistants, and technical support personnel. 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., accreditation, 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 fees can be included.
Reference and Resources for completion of proposal.

For certification on signature page.

TAC Section 5.50 (b).

(b) To be approved by the Commissioner, a proposal for a new degree program must include certification in writing from the Board of Regents of a proposing institution, in a form prescribed by the Commissioner, that the following criteria have been met:

(1) The proposed degree program is within the Table of Programs previously approved by the Board for the requesting institution.

(2) The curriculum, faculty, resources, support services, and other components of a proposed degree program are comparable to those of high quality programs in the same or similar disciplines offered by other institutions.

(3) Clinical or in-service placements, if applicable, have been identified in sufficient number and breadth to support the proposed program.

(4) The program is designed to be consistent with the standards of the Commission on Colleges of the Southern Association of Colleges and Schools, and with the standards of other applicable accrediting agencies; and is in compliance with appropriate licensing authority requirements.

(5) The institution has provided credible evidence of long-term student interest and job-market needs for graduates; or, if proposed by a university, the program is appropriate for the development of a well-rounded array of basic baccalaureate degree programs at the institution where the principal faculty and other resources are already in place to support other approved programs and/or the general core curriculum requirements for all undergraduate students.

(6) The program would not be unnecessarily duplicative of existing programs at other institutions.

(7) Implementation and operation of the program would not be dependent on future Special Item funding.

(8) New costs to the institution over the first five years after implementation of the program would not exceed $2,000,000.
Section II. C of the CB proposal asks campuses to provide information about Core and Support Faculty but does not ask for any other personnel information or any additional personnel who may be involved in the delivery of the new program. AND Section III of the proposal requests identification of personnel costs for first five-year period.

The following 'FTE personnel' table provides program proposal preparers an avenue to identify personnel requirements by category types, along with the types of funding sources [new costs vs. reallocated/reassigned funds from existing sources] for these personnel. The total costs from this table will provide 'Personnel' information costs to be included within Section III -- the 'Five-Year Costs and Funding Sources' table on p. 4 of the program proposal form.

Personnel to support the program are already in place.

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Administration</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORE Faculty</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUPPORT Faculty</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Graduate Student Assts</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clerical/Other Support</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reassignment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5-Year TOTAL/TOTAL: New

NOTE: Reassignment = reallocation(s)
NEW COSTS TO THE INSTITUTION OF THE PROGRAM/ADMINISTRATIVE CHANGE  (TAMUS modified)

Complete this chart to indicate the dollar costs to the institution that are anticipated from the change requested.

No new costs are anticipated.

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Cost Sub-Category</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Salaries</td>
<td>(New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Reassignments)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Administration</td>
<td>(New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(Reassignments)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate Assistants</td>
<td>(New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>(Reassignments)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clerical/Staff</td>
<td>(New)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>(Reassignments)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplies &amp; Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Library</td>
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<tr>
<td>Equipment &amp; IT Resources**</td>
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<td>Facilities</td>
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<tr>
<td>Other (Identify)</td>
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<td>TOTALS</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
ANTICIPATED SOURCES OF FUNDING  Note: Use this chart to indicate the dollar amounts anticipated from various sources. Use the additional explanation section that follows this page to specify as completely as possible each non-formula funding source.

<table>
<thead>
<tr>
<th>Funding Category</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Formula Income*</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>II. Other State Funding*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Reallocation of Existing Resources*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Federal Funding* (In-hand only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Other Funding*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*For more information, please refer to the accompanying Anticipated Sources of Funding: Explanatory Notes and Examples
NON-FORMULA SOURCES OF FUNDING

Note: Use this form to specify as completely as possible each of the non-formula funding sources for the dollar amounts listed on the reverse side of this form.

<table>
<thead>
<tr>
<th>Funding Category</th>
<th>Non-Formula Funding Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. Other State Funding*</td>
<td>#1</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Reallocation of Existing Resources*</td>
<td>#1</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Federal Funding*</td>
<td>#1</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Other Funding*</td>
<td>#1</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Explanations: ANTICIPATED SOURCES OF FUNDING: EXPLANATORY NOTES AND EXAMPLES

I. Formula Income
   A. The first two years of any new program should not draw upon formula income to pay for the program.
   B. For each of Years 3 through 5, enter the smaller of:
      1. the new formula income you estimate the program would generate, based on projected enrollments and formula funding rates; or
      2. half of the estimated program cost for that year.
   C. Because enrollments are uncertain and programs need institutional support during their start-up phase, it is the Coordinating Board's policy to require institutions to demonstrate that they can provide:
      1. sufficient funds to support all the costs of the proposed program for the first two years (when no new formula funding will be generated); and
      2. half of the costs of the new program during years three through five.
   D. When estimating new formula income, institutions should take into account the fact that students switching programs do not generate additional formula funding to the institution. For example, if a new master's program has ten students, but five of them switched into the program from existing master's programs at the institution, only five of the students will generate new formula income to help defray the costs of the program.

II. Other State Funding
This category could include special item funding appropriated by the legislature, or other sources of funding from the state that do not include formula-generated funds (e.g., HEAF, PUF, etc.).

III. Reallocation of Existing Resources:
If faculty in existing, previously budgeted positions is to be partially or wholly reallocated to the new program, you should explain in the text of your proposal how the institution will fulfill the current teaching obligations of those faculty and include any faculty replacement costs as program costs in the budget.

IV. Federal Funding
Only federal monies from grants or other sources currently in hand may be included. Do not include federal funding sought but not secured. If anticipated federal funding is obtained, at that time it can be substituted for funds designated in other funding categories. Make note within the text of the proposal of any anticipated federal funding.

V. Other Funding
This category could include Auxiliary Enterprises, special endowment income, or other extramural funding.
Certification Form for New Bachelor’s and Master’s Programs
Texas Higher Education Coordinating Board

Directions: An institution shall use this form to request a new bachelor’s or master’s degree program that meets all criteria for automatic approval in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44: (a) The program has institutional and governing board approval; (b) the program complies with the Standards for Bachelor’s and Master’s Programs; (c) adequate funds are available to cover the costs of the new program; (d) new costs during the first five years of the program will not exceed $2 million; (e) the program is a non-engineering program (i.e., not classified under CIP code 14); and (f) the program will be offered by a university or health-related institution.

If a new bachelor’s or master’s program does not meet the criteria above, an institution must submit a request using the Form for Requesting a New Bachelor’s and Master’s Degree Program.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

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; Bachelor of Arts in Interdisciplinary Studies with 4-8 ESL Generalist Certification).

   Bachelor of Business Administration with a major in Business Administration

3. **Proposed CIP Code:** 52.0101.00

4. **Number of Required Semester Credit Hours (SCHs)** *(If the number of SCHs exceeds 120 for a bachelor’s program, the institution must request a waiver documenting the compelling academic reason for requiring more SCHs.): 120

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). Special Programs Office within Mays Business School

6. **Delivery Mode:** Identify how and where the program would be delivered, e.g. on-campus face-to-face, online, off-campus, interactive videoconferencing, hybrid, etc.

   Face-to-face

7. **Implementation Date:** Report the first semester and year that students would enter the program. Spring 2016

8. **Contact Person:** Provide contact information for the person who can answer specific questions about the program.

   Name: Kris Morley
   Title: Director, Business Honors
   E-mail: kmorley@mays.tamu.edu
   Phone: 979.862.8975
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The program has institutional approval.

(b) The program complies with the Standards for Bachelor’s and Master’s Programs.

(c) Adequate funds are available to cover the costs of the new program.

(d) New costs during the first five years of the program will not exceed $2 million.

(e) The program is a non-engineering program (i.e., not classified under CIP code 14).

(f) The program will be offered by a university or health-related institution.

I understand that the Coordinating Board will update the program inventory for the institution if no objections to the proposed program are received during the 30-day public comment period.

________________________________________  ____________________________
Chief Executive Officer                       Date

__________________________________________
I hereby certify that the Board of Regents has approved this program.

Date of Board of Regents approval: __________________________

________________________________________  __________________________
Board of Regents (or Designee)                Date
SPECIAL CONSIDERATION

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
MINOR IN ANALYSIS, DESIGN AND MANAGEMENT OF ENERGY CONVERSION SYSTEMS
REQUEST FOR A NEW MINOR
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Analysis, Design, and Management of Energy Conversion Systems

Department: Mechanical Engineering

College: Dwight Look College of Engineering

Will grant a minor ☑ Yes ☐ No Academic Year: 2016

A selection from among the following courses will constitute a minor field of study.

A. The following ___ __ hours of course work are required.
   MEEN 344
   MEEN 421
   MEEN 461

B. Select ___ ___ hours from the following courses.
   MEEN 410
   MEEN 436
   MEEN 437
   MEEN 472

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 _____ hours required.

Minimum of 6 hours at 300- to 400-level

3.5 Minimum Overall GPA.

Prerequisites of required and elective courses must be satisfied (C or better) even if not counting toward degree or minor.

Reviewed and approved by:

[Signature]
Department Head/Program Director 7/33/15

[Signature]
AOC Dean of College Date

[Stamp]
DECEIVED CURRICULAR SERVICES
JUL 24 2015
TO:         Dr. Ann Kenmeier  
            Associate Provost for Undergraduate Studies  
            Texas A&M University

THROUGH:   Dr. Prasad Enjeti  
            Associate Dean for Undergraduate Programs  
            Dwight Look College of Engineering

THROUGH:   Dr. Andreas Polycarpou  
            Meinhard H. Kotzebue '14 Professor and Department Head  
            Department of Mechanical Engineering

FROM:      Dr. Timothy Jacobs  
            Undergraduate Program Director  
            Department of Mechanical Engineering

DATE:      July 23, 2015

RE: Proposed Minor Programs in Mechanical Engineering as Amended by UGA on 7/22/2015

The Department of Mechanical Engineering at Texas A&M University proposes the implementation of three minor programs as described herein. These programs have been approved by the faculty of the department on April 17, 2015.

The objectives of the MEEN minors are thus:
1. Expand the working knowledge of mechanical engineering principles to broader engineering activities, and
2. Provide non-MEEN students with a specialized aspect of mechanical engineering to enhance their skillset and capabilities within their discipline-specific field.

The approach taken to offer MEEN minors are thus:
1. Students must be high-achieving in their own discipline. Minimum GPA for MEEN minor applicants is 3.5.
2. Students may apply as early as their fourth semester of college but before their seventh semester of college.
3. Students may choose among one or more of the following three minor programs. Courses under each track are those required for the minor; students must still satisfy course prerequisites (C or better) which may or may not apply toward the minor or the student’s major degree(s):
   a. Analysis, Design and Management of Energy Conversion Systems
      i. MEEN 344 – Fluid Mechanics
ii. MEEN 461 – Heat Transfer
iii. MEEN 421 – Thermal Fluid Systems Analysis and Design
iv. Two choices of:
   1. MEEN 410 – Internal Combustion Engines
   2. MEEN 436 – HVAC
   3. MEEN 437 – Building Energy Analysis
   4. MEEN 472 – Gas Dynamics
b. Control of Mechanical Systems
   i. MEEN 363 – Dynamics
   ii. MEEN 364 – Systems and Control
   iii. MEEN 431 – Advanced System Dynamics and Controls
   iv. Two choices of:
       1. MEEN 408 – Introduction to Robotics
       2. MEEN 411 – Mechanical Controls
       3. MEEN 432 – Automotive Engineering
       4. MEEN 433 – Mechatronics
       5. MEEN 434 – Dynamics and Modeling of Mechatronic Systems
       6. MEEN 459 – Mechanical Vibrations
c. Design and Simulation of Mechanical Systems
   i. MEEN 363 – Dynamics
   ii. MEEN 368 – Solid Mechanics in Mechanical Design
   iii. MEEN 475 – Materials in Design
   iv. Two choices of:
       1. MEEN 441 – Design of Mechanical Components and Systems
       2. MEEN 442 – Computer Aided Engineering
       3. MEEN 444 – Finite Element Analysis in Mechanical Engineering
       4. MEEN 448 – Fundamentals of Nondestructive Testing
       5. MEEN 460 – Corrosion Engineering
       6. MEEN 467 – Mechanical Behavior of Materials
SPECIAL CONSIDERATION

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
MINOR IN CONTROL OF MECHANICAL SYSTEMS
REQUEST FOR A NEW MINOR
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Control of Mechanical Systems

Department: Mechanical Engineering

College: Dwight Look College of Engineering

Will grant a minor [✓] Yes [ ] No Academic Year: 2016

A selection from among the following courses will constitute a minor field of study.

A. The following 9 hours of course work are required.
   MEEN 363
   MEEN 364
   MEEN 431
   MEEN 433
   MEEN 434
   MEEN 435

B. Select 6 hours from the following courses.
   MEEN 408
   MEEN 411
   MEEN 432
   MEEN 459

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 _____ hours required.

Minimum of 6 hours at 300- to 400-level

3.5 Minimum Overall GPA.

Prerequisites of required and elective courses must be satisfied (C or better) even if not counting toward degree or minor.

Reviewed and approved by:

Department Head/Program Director 7/23/15

AOC Dean of College Date

CURRICULAR SERVICES
The Department of Mechanical Engineering at Texas A&M University proposes the implementation of three minor programs as described herein. These programs have been approved by the faculty of the department on April 17, 2015.

The objectives of the MEEN minors are thus:
1. Expand the working knowledge of mechanical engineering principles to broader engineering activities, and
2. Provide non-MEEN students with a specialized aspect of mechanical engineering to enhance their skillset and capabilities within their discipline-specific field.

The approach taken to offer MEEN minors are thus:
1. Students must be high-achieving in their own discipline. Minimum GPA for MEEN minor applicants is 3.5.
2. Students may apply as early as their fourth semester of college but before their seventh semester of college.
3. Students may choose among one or more of the following three minor programs. Courses under each track are those required for the minor; students must still satisfy course prerequisites (C or better) which may or may not apply toward the minor or the student’s major degree(s):
   a. Analysis, Design and Management of Energy Conversion Systems
      i. MEEN 344 – Fluid Mechanics
ii. MEEN 461 – Heat Transfer
iii. MEEN 421 – Thermal Fluid Systems Analysis and Design
iv. Two choices of:
   1. MEEN 410 – Internal Combustion Engines
   2. MEEN 436 – HVAC
   3. MEEN 437 – Building Energy Analysis
   4. MEEN 472 – Gas Dynamics

b. Control of Mechanical Systems
   i. MEEN 363 – Dynamics
   ii. MEEN 364 – Systems and Control
   iii. MEEN 431 – Advanced System Dynamics and Controls
   iv. Two choices of:
       1. MEEN 408 – Introduction to Robotics
       2. MEEN 411 – Mechanical Controls
       3. MEEN 432 – Automotive Engineering
       4. MEEN 433 – Mechatronics
       5. MEEN 434 – Dynamics and Modeling of Mechatronic Systems
       6. MEEN 459 – Mechanical Vibrations

c. Design and Simulation of Mechanical Systems
   i. MEEN 363 – Dynamics
   ii. MEEN 368 – Solid Mechanics in Mechanical Design
   iii. MEEN 475 – Materials in Design
   iv. Two choices of:
       1. MEEN 441 – Design of Mechanical Components and Systems
       2. MEEN 442 – Computer Aided Engineering
       3. MEEN 444 – Finite Element Analysis in Mechanical Engineering
       4. MEEN 448 – Fundamentals of Nondestructive Testing
       5. MEEN 460 – Corrosion Engineering
       6. MEEN 467 – Mechanical Behavior of Materials
SPECIAL CONSIDERATION

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
MINOR IN DESIGN AND SIMULATION OF MECHANICAL SYSTEMS
REQUEST FOR A NEW MINOR
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Design and Simulation of Mechanical Systems

Department: Mechanical Engineering

College: Dwight Look College of Engineering

Will grant a minor √ Yes □ No Academic Year: 2016

A selection from among the following courses will constitute a minor field of study.

A. The following ___ hours of course work are required.
   MEEN 363
   MEEN 368
   MEEN 475
   MEEN 441
   MEEN 448

B. Select ___ hours from the following courses.
   MEEN 442
   MEEN 460
   MEEN 444
   MEEN 467

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 ____ hours required.

Minimum of 6 hours at 300- to 400-level

3.5 Minimum Overall GPA.

Prerequisites of required and elective courses must be satisfied (C or better) even if not counting toward degree or minor.

Reviewed and approved by:

[Signature]
Department Head/Program Director
Date

[Signature]
AOC Dean of College
Date

RECEIVED
JUL 24 2015
CURRICULAR SERVICES
TO: Dr. Ann Kenmeier  
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FROM: Dr. Timothy Jacobs  
Undergraduate Program Director  
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      5. MEEN 460 – Corrosion Engineering
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