1. Approval of the e-vote minutes of March 4, 2016.

2. New Courses
   A29 BIOL 301
   A30 BMEN 458
   A31 RPTS 381

3. Change in Courses
   C13 ENGR 111 – prerequisites
   C14 ENGR 112 – prerequisites
   C15 RPTS 304 – prerequisites
   C16 RPTS 336 – prerequisites
   C17 RPTS 421 – course title, description
   C18 RPTS 484 – prerequisites

4. Change in Curricula

   **College of Science**
   Department of Physics and Astronomy
   D3 Minor in Physics

5. Texas A&M University at Galveston
   a. Change in Curriculum

   **Texas A&M University at Galveston**
   Department of Maritime Administration
   G1d BS in Maritime Administration and MMAL in Maritime Administration and Logistics – 3+2 program

6. Special Consideration

   **College of Engineering**
   H2 Department of Nuclear Engineering
   BS in Radiological Health Engineering
   Request to discontinue degree program

   **School of Public Health**
   H3 Department of Public Health Studies
   Minor in Occupational Health and Safety
   Request for a new minor

   **College of Science**
   Department of Biology
   H4 Minor in Bioinformatics
   Request for a new minor

7. Other Business
Minutes of the Undergraduate Curriculum Committee  
March 4, 2016  
E-Vote

The Undergraduate Curriculum Committee recommends approval of the following:

1. The minutes of the December 4, 2015 meeting (correction) and February 5, 2015 e-vote meeting.

2. Change in Courses

   **AGEC 285. Directed Studies.**

   Variable credit hours  
   From: Credit 1 to 4.  
   To: Credit 0 to 4.

   **AGEC 291. Research.**

   Variable credit hours  
   From: Credit 1 to 4.  
   To: Credit 0 to 4.

   **AGEC 484. Internship.**

   Variable credit hours  
   From: Credit 1 to 6.  
   To: Credit 0 to 6.

   **AGEC 485. Directed Studies.**

   Variable credit hours  
   From: Credit 1 to 6.  
   To: Credit 0 to 6.

   **AGEC 491. Research.**

   Variable credit hours  
   From: Credit 1 to 6.  
   To: Credit 0 to 6.

   **BIOL 456. Medical Microbiology.**

   Lecture contact hours and semester credit hours  
   From: (4-0). Credit 4.  
   To: (3-0). Credit 3.
3. Texas A&M University at Galveston

   a. Change in Courses

   **MARB 303. Biostatistics.**

   Prerequisites
   From: MATH 151. Curriculum sophomore, junior or senior classification or approval of instructor.
   To: MATH 151 or MATH 142; sophomore, junior or senior classification or approval of instructor.

   **MARB 310. Introduction to Cell Biology.**

   Prerequisites
   From: Cell Biology should precede or be concurrent with enrollment in MARB 450. BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.
   To: BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.

   **MARB 408. Marine Botany.**

   Prerequisites
   From: BIOL 112. Curriculum sophomore, junior or senior classification or approval of instructor.
   To: BIOL 112; junior or senior classification or approval of instructor.

   **MARB 425. Marine Ecology.**

   Prerequisites
   From: MARB 315, 408, 435; curriculum senior or approval of instructor.
   To: MARB 315; senior classification or approval of instructor.
NEW COURSES
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

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

2. Request submitted by (Department or Program Name):
   Biology

3. Course prefix, number and complete title of course:
   BIOL301 Big Bend National Park Natural History Survey

4. Catalog course description (not to exceed 50 words):
   Advanced field course taught in Big Bend National Park; biological, ecological and natural history features of Trans-Pecos ecoregion; unique geology, landscape, flora, fauna of Chihuahuan Desert. Prerequisite: Instructor Approval.

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

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

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

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

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

13. Prefix: BIOL  Course #: 301  Title (excluding punctuation): Big Bend Natural History Survey

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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:

[Signature]  2-24-16

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

[Signature]  2-26-16

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

Submitted to Coordinating Board by:

[Signature]  Effective 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
No Overlap Between Biology Course on Big Bend National Park and GEOL 330

October 22, 2015

Dr. David Baumgardner
Department of Biology
Texas A&M University

Dear Dr. Baumgardner:

Thank you for forwarding a copy of your syllabus for your proposed Big Bend National Park History Survey course through the Department of Biology at Texas A&M University. The Department of Geology and Geophysics does not foresee any conflict or overlap between your proposed course and the Geology of Big Bend (which we offer as one of the options for GEOL 330 - Geologic Field Trips). Your proposed syllabus focuses on ecology and wildlife, whereas our course focuses on the geologic features and geologic history of Big Bend. If you need more information about this interpretation of our course contents please contact me at 979.845.4376.

Sincerely,

[Signature]

Dr. Michael C. Pope
Professor and Head
Department of Geology and Geophysics

Cc: Tom Olszewski
Biology 301
Big Bend National Park Natural History Survey

Instructors:
David E. Baumgardner, PhD
Senior Lecturer
Department of Biology
Texas A&M University
College Station, TX 77843-3258
e-mail: dbaumgardner@tamu.edu
979-845-4191 (phone), 979-845-2891 (fax)
Office Location: Biological Sciences Building East (BSBE), Room 325

Teaching Assistant:
TBD

Course Description, Summary and Prerequisites

Course Description:
Big Bend National Park is part of the Trans-Pecos ecoregion, and is considered a semi-arid desert. August is part of the rainy season, which triggers many species of plants and animals to become active, and can result in a time of great biological activity. In addition, Big Bend is an exceptionally diverse region geologically, featuring an extinct volcanic caldera, tectonic features that reflect the assembly of the North American continent, and fossil deposits ranging from ancient marine reefs to river deposits containing dinosaur remains.

Students will experience the unique geology, landscape, flora, and fauna of the Chihuahuan Desert, while gaining a greater understanding of the inter-related ecosystems of the Chihuahuan Desert. Students will be expected to keep a daily journal of the various learning events experienced and submit a final document at the end of the course.

Course Summary: An advanced field course taught in Big Bend National Park emphasizing biological, ecological, and natural history features of the Trans-Pecos ecoregion. Detailed notes of the biology and geology of Big Bend based upon daily field trips throughout the park will be recorded by students.

Prerequisites: Approval of instructor.
Course Objectives and Learning Outcomes

Course Objectives.
- Learn about the culture, history, geography, flora, fauna, and ecology of Big Bend.
- Develop observational, natural history skills needed to record and document observations in a detailed field journal. These observations can include unique adaptations and diversity of the plants and animals of the tropics, and changes in structure and function between different ecosystems.
- Develop questions that address observations and attempt to provide an explanation based upon knowledge of biology and ecology.
- Learn to interact effectively with fellow students and conduct field studies in a difficult and challenging field environment.

Learning Outcomes. At the completion of the course, the student will:
- Have an increased understanding of the history, culture, and ecology of Big Bend National Park.
- Be able to successfully document the diverse flora and fauna and adaptations of these organisms that allow them to exist in a semi-arid desert environment.
- Enhance scientific writing and observational skills through “hands on”, high impact teaching.

Required Textbooks

No textbook is required for course. However, the following are recommended books if you wish to learn more about Big Bend National Park:


Grading Policies

The student's final grade will be based upon the following two criteria: (1) behavior, attitude, and participation in scheduled events; (2) daily field notes, reports, and discussions.

(1) Attendance, Behavior, Attitude, and Participation in Scheduled Events (10% / 10 Points). All students are expected to participate in all scheduled events, including lectures, and discussion of daily findings. Students are expected to follow all instructions and directives of the course faculty and staff and to treat all members of the course and any other individuals with whom the students may interact with respect and professionalism. Violation of these standards may result in verbal or written counseling statements and/or loss of points towards final course grade. An illness or injury that may prevent participation in a group activity must be reported to the course instructor who may then excuse participation in the activity without penalty with regard to grading criteria. Each time a scheduled event is missed without approval from the instructor, the student will lose one percentage point from their final average, with a maximum loss of 10%.

(2) Daily Field Notes, Reports, and Discussions (70% / 70 Points). Students will be required to maintain an observational journal of the flora, fauna, community structure, biological adaptations, and any other ecological concepts which they find of interest or are discussed by the course instructors. A notebook and permanent ink pen will be provided. Sketches and reference to pictures may also be included. Students will be expected to record at least five observational recordings per day (over the seven days in Big Bend) of the field based upon either formal, scheduled events or observations while in smaller, informal groups. At least two of the daily five observations must include a question as to how or why the process or adaptation occurred, and an explanation of the question based upon knowledge of biology and/or ecology. Journals will be randomly reviewed by either the course instructor or teaching assistant and, if needed, feedback provided to improve the journal. Upon return to campus, students will have three days to prepare their field notebooks for submission to the course instructor for grading. A minimum of 35 observations, with comments, will be expected. Each observation/comment is valued at two points, with a maximum score of 70 points.

(3) Post Return Discussions and Student Presentations (20% / 20 Points). Approximately one week after returning to College Station (exact date and time to be determined based upon student schedules), each student will give a 10 to 15 minute presentation to the entire group. Each presentation will be a discussion of what the student considers his or her four most interesting observations while in Big Bend. The purpose of the presentations is to expose students to topics which they may not have experienced while in Big Bend and to discuss in a more formal setting the various plants and animals and present in Big Bend and how they have adapted to their environment.

Final Grades: Final grades are determined as follows: A ≥ 90 points; B, 89 to 80 points; C, 79 to 70 points; D 69 to 60 points; F 59.
IMPORTANT NOTE: Administratively, this is considered a Fall course. Since the course will take place before the beginning of the fall semester, grades will not be formally assigned until the end of the fall semester.

Other Pertinent Course Information

Policy on Possession and /or Consumption of Alcoholic Beverages:
Possession or consumption of alcoholic beverages is strictly forbidden during the course for several reasons. First, many of the students in the course will not be of legal drinking age. Second, alcohol is a diuretic, which results in water loss to the body. Working in Big Bend in August is extremely stressful to the body due to the heat and lack of humidity, and results in extensive water loss to the body. Consumption of alcohol will only make the situation worse. Third, alcohol consumption can result in numerous social problems among students and create uncomfortable (and sometimes dangerous) situations.

Health Insurance:
All students are required to be covered under a health insurance policy and provide proof of this coverage when they complete the Health and Safety awareness form.

Safety:
Big Bend National Park is one of America’s most stunning parks, but also one of its most dangerous. Any student who is part of the course must realize and understand the risks, and how they are mitigated. Excessive heat and dehydration are the conditions that kill or injure many visitors to Big Bend each year, in particular during the months of July and August. Each morning, the instructors will brief the student’s on the activities for the day, safety concerns, and ensure everybody has proper clothing, water, and any other necessary items. Students MUST inform the instructors or teaching assistants at any time if they are feeling ill or have any health concerns or issues.

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, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit http://disability.tamu.edu.
THE HIGHEST ETHICAL STANDARDS ARE EXPECTED AT ALL TIMES FROM ALL STUDENTS. "An Aggie does not lie, cheat or steal, or tolerate those who do." For additional information, please visit: http://www.tamu.edu/aggiehonor

TENTATIVE COURSE SCHEDULE 2016
(SUBJECT TO CHANGE DUE TO WEATHER CONDITIONS OR PARK RESTRICTIONS).

<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>LOCATION</th>
<th>ACTIVITY</th>
<th>Contact Hours</th>
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</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>9-Aug-16</td>
<td>Butler Hall #004</td>
<td>Pre-departure Briefings, 1PM - 3PM.</td>
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<tr>
<td>Wednesday</td>
<td>10-Aug-16</td>
<td>Butler Hall #004</td>
<td>Pre-departure Briefings, 1PM - 3PM.</td>
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<tr>
<td>Saturday</td>
<td>13-Aug-16</td>
<td>Travel from College Station to Big Bend</td>
<td>Change in flora from east to west</td>
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<td>Sunday</td>
<td>14-Aug-16</td>
<td>Rattlesnake Mountain (Fossil Hunt)</td>
<td>Paleocoeology</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Santa Elena Canyon</td>
<td>Geography/Invasive Species</td>
<td>3</td>
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<td></td>
<td></td>
<td>Cattail Falls</td>
<td>Flora and Fauna Adaptations</td>
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<tr>
<td></td>
<td></td>
<td>Lodging</td>
<td>Discussion of Days Activities</td>
<td>2</td>
</tr>
<tr>
<td>Monday</td>
<td>15-Aug-16</td>
<td>Boquillas Canyon</td>
<td>Geography</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td>Hot Springs Hike</td>
<td>Paleocoeology; plant adaptations</td>
<td>4</td>
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<td>Mariscal Mine</td>
<td>History/Culture</td>
<td>3</td>
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<td>Lodging</td>
<td>Discussion of Days Activities</td>
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<tr>
<td>Tuesday</td>
<td>16-Aug-16</td>
<td>The Window</td>
<td>Plant and animal adaptations</td>
<td>4</td>
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<td></td>
<td>Lost Mine Trail (Caldera)</td>
<td>Geology</td>
<td>2</td>
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<td></td>
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<td>Night Hike</td>
<td>Animal Adaptations</td>
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<tr>
<td>Wednesday</td>
<td>17-Aug-16</td>
<td>Emory Peak</td>
<td>Flora and Fauna Endemism</td>
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<td>Lodging</td>
<td>Discussion of Days Activities</td>
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<tr>
<td>Thursday</td>
<td>18-Aug-16</td>
<td>Rest, Refit, and Recuperation</td>
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<td></td>
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<td>Fossil Bone Exhibit</td>
<td>Paleocoeology</td>
<td>3</td>
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<tr>
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<td></td>
<td>Night Hike</td>
<td>Animal Adaptations</td>
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<td>Friday</td>
<td>19-Aug-16</td>
<td>Glenn Spring</td>
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<td></td>
<td>Juniper Canyon</td>
<td>Plant and animal adaptations</td>
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<tr>
<td>Saturday</td>
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<td>Burrow Runoff</td>
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<td>Ward Spring</td>
<td>Plant and Animal Adaptations</td>
<td>4</td>
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<td>Sunday</td>
<td>21-Aug-16</td>
<td>Return trip to TAMU via Hwy 90</td>
<td>Plant adaptations; change in flora and fauna travelling from BB to CS.</td>
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<td>Wednesday</td>
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<td>Butler Hall #004</td>
<td>Discussions, student presentations.</td>
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<td>Butler Hall #004</td>
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Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type:  ✓ Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):  Department of Biomedical Engineering
3. Course prefix, number and complete title of course:  BMEN 458: Motion Biomechanics
4. Catalog course description (not to exceed 50 words):
Skeletal anatomy and mechanics; muscle anatomy and mechanics; theory and application of electromyography; motion and force measuring equipment and techniques; inverse dynamics modeling of the human body; current topics in musculoskeletal biomechanics research.

5. Prerequisite(s):  BMEN 207 or consent of instructor; junior or senior classification.
Cross-listed with:  
Stacked with:  BMEN 658 (also new)

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)

BS BMEN

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

13. Prefix  Course #  Title (excluding punctuation)
    BMEN  458  MOTION BIOMECHANICS

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Approval recommended by:
Department Head or Program Chair (Type Name & Sign)  Date
Chair, College Review Committee  Date

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

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

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course and title: BMEN 458/658 – Motion Biomechanics
Term: Fall 2016
Course Credit: 3 (3-0)

Instructor: Prof. Michael Madigan
Office: 5063 Emerging Technologies Building (ETB)
Office Hours: TR 10:50-11:30 am
E-mail: mlm@tamu.edu

Class Time: T/Th 9:35-10:50 am
Classroom: ETB 5039

Learning Objectives: Students will be able to:
- Explain the anatomy and physiology involved in a muscle contraction
- Describe biomechanical factors that affect muscle force production
- Quantify muscle force, muscle activation timing, and localized muscle fatigue using electromyography and signal processing techniques
- Measure human balance a force platform and signal processing techniques
- Apply rigid-body dynamics to the human body to estimate internal loads on the musculoskeletal system
- Use computer code to analyze data collected in a research laboratory to extract meaningful information
- Describe state-of-the-art equipment used in biomechanics research, including their usefulness and limitations

Course Description: Skeletal anatomy and mechanics; muscle anatomy and mechanics; theory and application of electromyography; motion and force measuring equipment and techniques; inverse dynamics modeling of the human body; current topics in musculoskeletal biomechanics research.

Undergraduate Prerequisite: Junior or senior classification in engineering, and BMEN 207. Students should also have at least a basic proficiency using Matlab.

Graduate Prerequisite: Graduate classification. Students should have at least a basic proficiency using Matlab.

Textbook: There is no required textbook for this class. Frequent handouts will be provided to support lecture material. Supplementary textbooks include:
- Biomechanics and Motor Control of Human Movement. D.A. Winter
- Biomechanics of the Musculoskeletal System. B.M. Nigg & W. Herzog
- Biomechanics and Biology of Movement. Nigg, Macintosh, Mester, Eds
- Neuromechanics of Human Movement. R. Enoka

Attendance Policy: Work missed due to absences will only be excused for University-approved activities in accordance with Texas A&M University Student Rules (http://student-rules.tamu.edu/rule07). You are responsible for all course material presented. A request for a rescheduled assignment must be made at least one week before the regularly scheduled date (except in unavoidable situations, such as a medical emergency consistent with Student Rules).
Project Deadlines: All items due at the beginning of class on the due date.
Topic statement: Sept 20
Written paper: TBD
Class presentations: TBD

**Americans with Disabilities Act Policy Statement:**
The Americans with Disabilities Act 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, located at Students Services @ White Creek, or call 845-1637. For additional information please visit http://disability.tamu.edu.

**Academic Integrity Statement:**
Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.” http://aggiehonor.tamu.edu
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

Form Instructions:

1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Recreation, Park and Tourism Sciences
   RPTS 381 Visitor and Resource Protection II
3. Course prefix, number and complete title of course:

4. Catalog course description (not to exceed 50 words):
   Fundamental values and operations of the visitor and resource protection branch of the National Park Service; law enforcement, customer service, ethics, and team cohesion.

5. Prerequisite(s):
   RPTS 380; Junior or senior status; Permission of the Instructor.

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

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

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

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

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

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

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

   B.S. in Recreation, Park and Tourism Sciences and other undergraduate majors

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)
   RPTS 381 Visitor Resource Protection II

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   Approval recommended by: [ ]
   Gary D. Ellis, PhD
   Department Head or Program Chair (Type Name & Sign) Date 2/4/16
   Chair, College Review Committee Date 3/3/16
   Dean of College Date 3/7/16

   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  RPTS 381 Visitor and Resource Protection II
Term          Fall 2016
Meeting times and location    Thursday 5pm – 7pm in AGLS 125

Credits: 2
Prerequisites: Junior or Senior Status; Permission of the Instructor

Instructor Information

Name          Lavell Merritt, Jr., PhD
Phone          956-754-0006
Email address  Lavell_Merritt@nps.gov
Office hours   1:00pm – 3:00pm Tuesday – Thursday
Office location AGLS 426

Course Description

Fundamental values and operations of the visitor and resource protection branch of the National Park Service; law enforcement, customer service, ethics, and team cohesion.

Course Background and Format

Students will be prepared to enter the National Park Service Law Enforcement Training Academy. The course focuses on developing the student’s ability to fully contribute to National Park operations. The class content is based on the Federal Law Enforcement Training Center National Park Service Land Management Police Training Program.

Learning Outcomes

Students who successfully and satisfactorily complete this course will:

1) Identify the National laws and regulations that are enforced in our National Parks.
2) Discuss how NPS law enforcement contributes to the mission of the National Park Service.
3) Define the different types of jurisdiction impacting NPS Law Enforcement Park Rangers.
4) Describe the federal authority entrusted upon NPS Law Enforcement Park Rangers.
5) At the park level, identify the sources of regulations that Park Rangers enforce in National Parks.
Textbook and/or Resource Material (It is not necessary to purchase these texts)


DOI Ethics Guide for Dept of the Interior Employees


Reference Manual - 9
Reference Manual - 43
FLETC Legal Division Handbook

Grading Policies

1) Class Participation  10%
2) Attendance       5%
3) Exams           30%
4) Presentation    25%
5) Physical Efficiency Battery 30%
Total                100%

A=90-100 points
B=80-89.9 points
C=70-79.9 points
D=60-69.9 points
F<60 points

Class participation is defined by the students’ active performance in the class. Students must speak in class, ask questions, offer ideas, and physically participate in assignments and class activities.

Attendance will be taken each class day. Students can miss up to 2 classes with prior notice to the instructor. The third missed class will result in the student’s grade being lowered by 10 points unless students provide University-excused absence documentation.

The university attendance policy can found at this link to student rule 7 http://student-rules.tamu.edu/rule07. Students can meet with the instructor to make up missed classes.
Exams & Assignments

a. Exam I
   Point Value = 10 points

b. Exam II
   Point Value = 10 points

c. Exam III
   Point Value = 10 points

d. 2016 Host Park Goals and Objectives Presentation – Due December 2016
   Students will create a 5 minute Powerpoint including:
   • an overview of themselves
   • a description of their host park
   • a map of the host park
   • a description of the local community,
   • the cadet’s planned accomplishments over the course of the summer internship
   Point Value = 25 points

e. Physical Efficiency Battery
   The physical fitness battery is described here: https://www.fletc.gov/physical-efficiency-battery-peb. Students will be trained in the PEB throughout the course leading to graded testing of students on the following dates. Each test is worth 10 points.
   September 18
   October 13
   December 1
   Total Point Value = 30 points

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 would like to be considered for disability accommodations, you must first register with Disability Services and provide medical documentation to support your request for consideration. Disability Services is currently located at the White Creek complex on west campus. For additional information, call 979-845-1637 or visit http://disability.tamu.edu. (Revised 11-20-15)

Academic Integrity
For additional information please visit: http://aggiehonor.tamu.edu “An Aggie does not lie, cheat, or steal, or tolerate those who do.”
Fall Semester 2016 Schedule

September 1, 2016 Week One
*NPS History and Mission of Law Enforcement*
Instructor: ProRanger Program Manager Lavell Merritt, Jr. PhD

ENABLING PERFORMANCE OBJECTIVES (EPO):

- EPO#1: Identify the National Park Service Mission as established by enabling legislation, "The Organic Act".

- EPO#2: Describe and identify the evolution of law enforcement in the National Park Service, highlight watershed events and the circumstances that led to a revision of the law enforcement authority of NPS employees in the 1970s.

- EPO#3: Identify the authority of National Park Service employees at the creation of the service and the current authority of National Park Service law enforcement rangers.

September 08, 2016 Week Two
*Ethical Behavior and Core Values*
Instructor: US Park Ranger Justin Patino El Morro National Monument
Required Reading: RM9 Ch4
Class Meets at TAMU AGLS 125

ENABLING PERFORMANCE OBJECTIVES (EPO):

- EPO #1: Identify the Federal Law Enforcement Code of Conduct as defined by the Department of Interior and found in RM-9.

- EPO #2: Identify the 11 standards of RM-9 4.2.2

- EPO #3: Identify the requirements to obtain outside employment

- EPO #4: Identify the Oath of Office

- EPO #5: Identify the steps to follow when reporting a violation of standards.

September 18, 2016 Week Three
*Physical Fitness for the NPS*
Instructor: US Park Ranger Travis Heinrich Glen Canyon National Recreation Area
Class Meets at PVAMU Student Recreation Center

ENABLING PERFORMANCE OBJECTIVES (EPO):

- EPO #1: Measure for current height and weight; body weight will be determined by a calibrated scale.

- EPO #2: Measure current level of body fat to lean muscle through the use of a skin fold calipers.

- EPO #3: Perform a proper warm-up prior to engaging in any of the physically
demanding components of the PEB.

- EPO #4: Demonstrate speed and agility through performance of the Illinois agility run.
- EPO #5: Demonstrate flexibility of the lower back, hamstrings, and shoulder musculature through the performance of the trunk flexion test.
- EPO #6: Demonstrate muscular strength through performance of the bench press test which is a ratio of the maximum amount lifted and the individual’s body weight.
- EPO #7: Demonstrate cardiovascular endurance through performance of the 1.5 mile run.
- EPO #8: Identify the level of performance in each assessment area by comparing the student’s performance value to the corresponding PEB score and understanding that a score at the 25th percentile or higher in each area excluding the body composition and flexibility represents an acceptable level of physical fitness.

**September 25, 2016 Week Four**

**NPS Law Enforcement Program**

**Instructor:** US Park Ranger Jonathan Moul  
**Grand Teton National Park**

**Required Reading:** RM9 Ch 1

**Class Meets at TAMU AGLS 125**

ENABLING PERFORMANCE OBJECTIVES (EPO):

- EPO #1: Identify where the NPS gets its authority to enforce laws
- EPO #2: Identify the five Key Definitions of RM-9 Ch.1, Sec. 2.
- EPO #3: Identify and describe the different roles and functions of the following:
  - Departmental Law Enforcement Official
  - Director
  - Associate Director, Visitor and Resource Protection, WASO
  - Deputy Associate Director, Visitor and Resource Protection, WASO
  - Chief, Division of Law Enforcement, Security and Emergency Services, WASO
  - Deputy Chief, Law Enforcement, Security and Emergency Services,
  - Operations and Policy, WASO
  - Regional Director
  - Park Superintendent
  - Regional Chief Ranger
  - Regional Law Enforcement Specialist
  - Chief Ranger/Senior Law Enforcement Officer
  - Park Ranger – Law Enforcement (GL-025, GS-025, GL-099, GS-099)
  - Deputy Chief, LESES, Investigative Services Branch (GS-1811)  
    (Formerly National Special Agent in Charge)
  - Branch Chief, Office of Professional Responsibility
  - Special Agent in Charge (GS-1811)
Special Agent (GS-1811)
Superintendent NPS-LETC

October 6, 2016 Week Five
Law Enforcement Authority
Instructor: US Park Ranger Angela Kesti Padre Island National Seashore
Required Reading: RM9 Ch 2
Class Meets at TAMU AGLS 125

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Identify the Source of Authority for NPS LE
- EPO #2: Describe the Intent of the Authorities Act
- EPO #3: Describe the Scope of Authority of NPS LE Rangers
- EPO #4: Identify the differences between a Type I and Type II Law Enforcement Commission
- EPO #5: Identify the differences between “On” and “Off” Duty Status

October 13, 2016 Week Six
Physical Fitness for the NPS
Instructor: ProRanger Program Manager Lavell Merritt PhD
Class Meets at PVAMU Student Recreation Center

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Measure for current height and weight; body weight will be determined by a calibrated scale.

- EPO #2: Measure current level of body fat to lean muscle through the use of a skin fold calipers.

- EPO #3: Perform a proper warm-up prior to engaging in any of the physically demanding components of the PEB.

- EPO #4: Demonstrate speed and agility through performance of the Illinois agility run.

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- EPO #6: Demonstrate muscular strength through performance of the bench press test which is a ratio of the maximum amount lifted and the individual’s body weight.

- EPO #7: Demonstrate cardiovascular endurance through performance of the 1.5 mile run.

- EPO #8: Identify the level of performance in each assessment area by comparing the student’s performance value to the corresponding PEB score and understanding that a score at the 25th percentile or higher in each area excluding the body composition and flexibility represents an acceptable level of physical fitness.

October 20, 2016 Week Seven
Jurisdiction
Instructor: US Park Ranger Trent Haire Gulf Islands National Seashore
Required Reading: RM9 Ch 3
Class Meets at TAMU AGLS 125

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Define "Jurisdiction"
- EPO #2: Identify the different types of Jurisdiction
- EPO #3: Identify the applicability of 36 C.F.R.
- EPO #4: Define a Jurisdictional Inventory

October 27, 2016 Week Eight
Federal Criminal Law
Instructor: US Park Ranger Erick Garza Coronado National Memorial
Class Meets at TAMU AGLS 125

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Identify the distinctions between crimes and torts, criminal law and civil law.
- EPO #2: Identify the elements of a criminal statute.
- EPO #3: Distinguish between a felony and a misdemeanor.
- EPO #4: Describe the difference between crimes that require specific intent and crimes that require only general intent.
- EPO #5: Identify when a person may be prosecuted as a principle, accessory after the fact, or has committed misprision of felony, in accordance with 18 U.S.C. §§ 2 through 4.
- EPO #6: Identify the statute of limitations for capital and non capital offenses.

November 3, 2016 Week Nine
Uniform and Appearance Standards
Instructor: US Park Ranger Rosileen Ferioli Independence National Historical Park
Required Reading: RM9 Ch 29 & RM43
Class Meets at PVAMU Student Recreation Center

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Describe the Uniform and Appearance Standards
- EPO #2: Identify the different types of Duty Gear to be worn while on duty.

November 10, 2016 Week Ten
Employee Health
Instructor: US Park Ranger Sean McNeil Guadalupe Mountains National Park
Required Reading: RM9 Ch 41 & RM 57
Class Meets at TAMU AGLS 125

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Identify the Medical Standards and Fitness Requirements policies
- EPO #2: Identify CISM

November 17, 2014 Week Eleven
Host Park Presentations
Class Meets at TAMU AGLS 125

- Cadets will give oral presentations

November 25, 2016 No Class Thanksgiving Holiday

December 1, 2016 Week Twelve
Physical Fitness for the NPS
Instructor: ProRanger Program Manager Lavell Merritt PhD
Class Meets at PVAMU Student Recreation Center

ENABLING PERFORMANCE OBJECTIVES (EPO):
- EPO #1: Measure for current height and weight; body weight will be determined by a calibrated scale.
- EPO #2: Measure current level of body fat to lean muscle through the use of a skin fold calipers.
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- EPO #8: Identify the level of performance in each assessment area by comparing the student’s performance value to the corresponding PEB score and understanding that a score at the 25th percentile or higher an acceptable level of physical fitness.
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, DO, PharmD, DVM)

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

3. Course prefix, number and complete title of course: ENGR 111 Foundations of ENGR 1

4. Change requested
   a. Prerequisite(s): From: Corequisite: MATH 151; admission to Dwight Look College of Engineering.
   b. Withdrawal (reason): 
   c. Cross-list with: 
   d. Change in course title and description. Enter complete current course title and course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? [✓] Yes  [ ] No

6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade  [ ] S/U  [ ] P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

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

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

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

11. As currently in course inventory:

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<th>Admin. Unit</th>
<th>HCE Code</th>
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Approval recommended by: [Signature]

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

Department Head or Program Chair (Type Name & Sign) 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 945-8208 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Hi Sandra,

Will this do?

Due to recent changes in ENGE admissions and Entry to a Major requirements, the College of Engineering is now allowing students to take ENGR 111 with MATH 150 or 151, and then continue with the ENGR 112 sequence by allowing a co-enrollment of MATH 151.

Regards,

Sally Kallina

Sally S. Kallina '85, M.Ed. | Senior Academic Advisor |
Engineering Activities Building B
Engineering Academic and Student Affairs (EASA)
Dwight Look College of Engineering | Texas A&M University
3127 TAMU | College Station, TX 77843-3127

Click here to make an appointment!

ph: 979.845.7200 | fax: 979.847.8654 | skallina@tamu.edu
http://engineering.tamu.edu/easa

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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 (ODS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): College of Engineering
3. Course prefix, number and complete title of course: ENGR 112 Foundations of ENGR I

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. Attach a course syllabus.

5. Is this an existing core curriculum course? ☑ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ___________________________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date
Dean of College Date

Submitted to Coordinating Board by:

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
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Sally Kallina

Sally S. Kallina ’85, M.Ed. | Senior Academic Advisor
Engineering Activities Building B
Engineering Academic and Student Affairs (EASA)
Dwight Look College of Engineering | Texas A&M University
3127 TAMU | College Station, TX 77843-3127

Click here to make an appointment!

ph: 979.845.7200 | fax: 979.847.8654 | skallina@tamu.edu
http://engineering.tamu.edu/easa

Engineers change the world.

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Texas A&M University

Departmental Request for a Change in Course
Undergraduate □ Graduate □ Professional
Submit original form and attachments

Form Instructions
1. Course request type:
   □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, D'VA)
2. Request submitted by (Department or Program Name): Department of Recreation, Park and Tourism Sciences
3. Course prefix, number and complete title of course: RPTS 304 Administration of Recreation Resource Agencies

4. Change requested:
   a. Prerequisite(s) From: RPTS 201 and RPTS 209; RNR 201. To: RPTS 201.
   b. Withdrawal (reason):
   c. Cross-list with:
   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture) and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
   □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   □ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   Contemporary issues and related administrative practices associated with the provision of recreation services and settings; addresses principles associated with recreation resource agency administration; personnel and customer-related administrative issues in recreation resource agencies; concepts and principles relevant to commercial and non-profit recreation resource agencies.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

10. As currently in course inventory:
    Prefix  Course #  Title (excluding punctuation)
         RPTS  304  Administration of Recreation Resource Agencies
    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
    3.00              3.00  528030016  2502  0 0 3 6 3 2 3

   Change to:
   Prefix  Course #  Title (excluding punctuation)
   RPTS  304  Administration of Recreation Resource Agencies
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Ac. Year  FICE Code  Level
   3.00              3.00  528030016  2502  0 0 3 6 3 2 3

   Approval recommended by:
   Gary D. Ellis, PhD  2/17/16
   Department Head or Program Chair (Type Name & Sign)  Date
   N/A  Department Head or Program Chair (Type Name & Sign)  Date
   (If cross-listed course)

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
RPTS 304

Justification for change in pre-requisites:

RPTS 209 is no longer required of all RPTS majors, and instructors no longer find the content of RPTS 209 vital to RPTS 304.

RENR 201 will change to RPTS 230. The computer applications covered in this course are no longer essential to RPTS 304.
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 Recreation, Park and Tourism Sciences
3. Course prefix, number and complete title of course: RPTS 336 Research and Analysis in Recreation and Tourism

4. Change requested
   a. Prerequisite(s): From: REIN 201 and STAT 201 or equivalents; all mathematics requirements satisfied.
   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:
   Please verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-fcr-distance-education).

8. Complete current course title and current catalog course description:
   Examination of current tourism and recreation research emphasizing specialized research methodology, adaptive techniques and methods of research useful to the recreation and tourism professional; analysis of the methods of problems identification, formulation and solution.

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

10. As currently in course inventory:
    

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | RPTS   | 336      | Research and Analysis in Rec Tour |
    
    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    |-------|-----|-------|-----|------------------|-------------|-----------|-------|
    | 3.00  |     | 3.00  | 529030016 | 2502 | 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 |
    |-------|-----|-------|-----|------------------|-------------|------------|-----------|
    |       |     |       |     |                  |             | 0 0 3 6 3 2 |          |

Approval recommended by:

Gary D. Ellis, PhD
Department Head or Program Chair (Type Name & Sign) Date 2/1/16

Chair of College Review Committee Date

Dean of College Date 3/1/16

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 08/14

RECEIVED MAR 08 2016 CURRICULAR SERVICES
RPTS 336

Justification for change in pre-requisites:

RENR 201 will change to RPTS 230 in Fall 2017. Both courses will be accepted as pre-requisites.
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, HurnD, DVM)
2. Request submitted by (Department or Program Name):
   Department of Recreation, Park and Tourism Sciences
3. Course prefix, number and complete title of course:
   RPTS 421 Planning and Implementation of Events in Resorts and Hotels

<table>
<thead>
<tr>
<th>Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change requested</td>
</tr>
<tr>
<td>a. Prerequisite(s): From: To:</td>
</tr>
<tr>
<td>b. Withdrawal (reason):</td>
</tr>
<tr>
<td>c. Cross-list with:</td>
</tr>
<tr>
<td>Cross-listed courses require the signature of both department heads.</td>
</tr>
<tr>
<td>d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and 11b for a change in title.</td>
</tr>
<tr>
<td>e. Change in course number, contact hours (lab &amp; lecture), and semester credit hours. Complete item 11a and 11b. Attach a course syllabus.</td>
</tr>
</tbody>
</table>

5. Is this an existing core curriculum course?
   - □ Yes
   - ✔ No

6. If grade type is changing for existing course, indicate the new grade type:
   - □ Grade
   - □ S/U
   - □ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:

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

9. Complete current course title and current catalog course description:
   Principles and applications for effective planning and management of events in resorts and hotels; planning, promotion, operational logistics, sponsorship and evaluation.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Hotel and Resort Operations. Examination of the crucial elements involved in the successful operation of a hotel or resort and how they interrelate; analysis and application of management principles in the major departments of hotels and resorts to include rooms division, food and beverage, recreation, sales and marketing.

11. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS</td>
<td>421</td>
<td>PLAN IMPLMT OF EVENTS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>FIC Code</th>
<th>Level</th>
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<td>3.00</td>
<td>529030016</td>
<td>2502</td>
<td>0 3 6   3 2</td>
<td>4</td>
</tr>
</tbody>
</table>

   b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS</td>
<td>421</td>
<td>HOTEL RESORT OPERATIONS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FIC Code</th>
<th>Level</th>
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<td>529030016</td>
<td>2502</td>
<td>17 18</td>
<td>0 3 6 3 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Approval recommended by:
Gary D. Ellis, PhD
Department Head or Program Chair (Type Name & Sign) Date 3/16/16

Chair, College Review Committee
Dean of College

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate  ☐ Graduate  ☐ First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Recreation, Park and Tourism Sciences
3. Course prefix, number and complete title of course: RPTS 484 Internship

4. Change requested
   a. Prerequisite(s): From: Approval of the department head. To: RPTS 311, RPTS 340 and RPTS 481.
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? ☐ Yes ☑ No
6. If grade type is changing for existing course, indicate the new grade type: ☐ Grade  ☑ S/U  ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:

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

9. Complete current course title and current catalog course description:
   Practical experience working in a professional recreation, park or tourism setting. Offered on an individual basis. May be repeated for credit.

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

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTS</td>
<td>484</td>
<td>Internship</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>Other</td>
</tr>
<tr>
<td>SCH</td>
<td>CIP and Fund Code</td>
<td>Admin. Unit</td>
</tr>
<tr>
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<td>2502</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>Other</td>
</tr>
<tr>
<td>SCH</td>
<td>CIP and Fund Code</td>
<td>Admin. Unit</td>
</tr>
</tbody>
</table>

Approval recommended by:
Gary D. Ellis, PhD 2/17/14
Department Head or Program Chair (Type Name & Sign) Date
N/A
Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:
Chair, GC or UCC 3/7/16
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14

[Stamp: Received Mar 08 2016 CURRICULAR SERVICES]
RPTS 484

Justification for change in pre-requisites:

Approval of the Department Head has not been enforced for many years. Students have been required to take RPTS 311, 340 and 481 as pre-requisites to RPTS 484 (Internship) for at least 5 years, but this was not formalized nor enforced by the Registrar. Formalizing these pre-requisites will ensure that students are informed well ahead of the semester of their internship.
CHANGE IN CURRICULUM
CHANGE IN CURRICULUM

COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS AND ASTRONOMY
MINOR IN PHYSICS
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type: √ Undergraduate  □ Graduate  □ First Professional (e.g., DVM, JD, MD, etc.)

2. Request change for: □ Degree Program  √ Minor  □ Certificate

3. Request submitted by (Department or Program Name):

   Program Designation and Name: Physics and Astronomy
   (e.g., B.A. in History, Minor in History, Certificate in European Union): Minor in Physics

4. Brief description of change:
Replace the current option for PHYS 222 - Modern Physics for Engineers or PHYS 309 - Modern Physics with a requirement for PHYS 309 - Modern Physics.

5. Rationale for change:
Students who complete PHYS 222 - Modern Physics for Engineers as part of the Physics minor are not meeting the requirement from Student Rule 14.6 which requires at least 6 hours in minor be 300 or 400 level.

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

7. a. Proposed curriculum attached. √ Yes  □ No
   b. Current catalog curriculum with handwritten edits attached. √ Yes  □ No
   c. Current Howdy degree evaluation with handwritten edits attached. √ Yes  □ No

Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes  √ No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached?

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

9. If proposed changes affect other unit(s), are letters of support attached? □ Yes  □ No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC: GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

George R. Welch
Department Head or Program Chair (Type Name & Sign)  2/9/2016
Date

Dean of College  Date

Chair, College Review Committee  3/9/16
Date

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or curricular@tamu.edu
Curricular Services – 04/14

RECEIVED
MAR 15 2016
CURRICULAR SERVICES
Physics - Minor

The Department of Physics and Astronomy offers a minor in physics. Contact the department for more information.

Program Requirements

Students who wish to complete a minor in physics must satisfy the following requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 218</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Optics and Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>Modern Physics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or PHYS 309</td>
<td>or Modern Physics</td>
<td></td>
</tr>
<tr>
<td>300-400 level physics elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>17</strong></td>
<td></td>
</tr>
</tbody>
</table>

1 Must make a grade of "C" or better.

2 Select from PHYS 300-399 (except PHYS 331, PHYS 332), or ASTR 314 in consultation with an advisor.
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: **Physics**

Department: **Physics and Astronomy**

College: **Science**

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 **14** hours of course work are required.
   - PHYS 218
   - PHYS 221
   - PHYS 208
   - PHYS 309

B. Select **3** hours from the following courses.
   - 300-400 level PHYS courses
   - ASTR 314

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 **17** hours required.

Minimum of 6 hours at 300- to 400-level

"C" or better is required for all courses. MATH 151 or 171 is a co-req for PHYS 218. MATH 152 or 172 is a co-req for PHYS 208. MATH 251 or 221 and MATH 308 are co-reqs for PHYS 221. PHYS 208 is a prereq for ASTR 314. Most 300 - 400 level PHYS have additional prereqs.

Reviewed and approved by:

[Signatures and dates]
**Detail Requirements**

No A. Writing Requirement

Only sections of PHYS 444 and 445 with the Writing attribute [UWRT] may be used to satisfy this requirement.

| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

**Area : General Electives ( 6.000 credits ) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. General Electives 6hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select any 100-499 course not used elsewhere. (except AERS 100-299; MATH 100-120, 130-150, 165-166, 363-366; MLSC 100-299; NVSC 100-299; PHYS 201-202, 207-208.)

| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

**Area : Work Not Applied - Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Credits and GPA | 0.000 | .00 |

unofficial evaluation

**Area : Physics Minor ( 17.000 credits ) - Not Met**

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. PHYS 218</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Must make a grade of 'C' or better.

| Total Credits and GPA | 0.000 | .00 |

**Detail Requirements**

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>D.</th>
<th>PHYS 302 or 309</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AND</td>
<td>E.</td>
<td>Upper-Level PHYS 3hrs</td>
</tr>
</tbody>
</table>

Must make a grade of 'C' or better.

Select from PHYS 302 or 309.

Must make a grade of 'C' or better.

Select from PHYS 300-399 (except PHYS 331-332), or ASTR 314 in consultation with a Department of Physics Advisor.

**unofficial evaluation**

**Area : University Writing Requirement - Not Met**

| Met | Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source |
|-----|-------------------------------------|----------------|------|--------------------------|------------------|---------|
| No  | A. Writing Requirement               |                |      |                          |                  |         |

Two courses required.

Only sections of PHYS 444 or 445 with the Writing attribute [UWRT] may be used to satisfy this requirement.

**unofficial evaluation**

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

| Met | Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source |
|-----|-------------------------------------|----------------|------|--------------------------|------------------|---------|
| No  | A. Int'l & Cultural Diversity 6hr   |                |      |                          |                  |         |

Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 299 with the UWRT attribute).

**unofficial evaluation**

**Area : Foreign Language - Not Met**

| Met | Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source |
|-----|-------------------------------------|----------------|------|--------------------------|------------------|---------|
| 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**

Total Credits and GPA 0.000 .00
Texas A&M University
at Galveston
TAMUG

CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARITIME ADMINISTRATION
BS IN MARITIME ADMINISTRATION AND MMAL IN MARITIME ADMINISTRATION
AND LOGISTICS – 3+2 PROGRAM
Texas A&M University
Request for a Change in Curriculum
Undergraduate □ Graduate □ Professional

1. Program request type:  □ Undergraduate □ Graduate □ First Professional (e.g., DVM, J.D., M.D., etc.)

2. Request change for:  □ Degree Program □ Minor □ Certificate

3. Request submitted by (Department or Program Name):  Maritime Administration

4. Program Designation and Name (e.g., B.A. in History, Minor in History, Certificate in European Union):  BS in MARA and MMAL: Masters in Maritime Administration and Logistics (3+2) (THESIS)

5. Brief description of change:
Add MARA 363 as a required course. Previously, students were allowed to demonstrate their mastery of the subject material by examination.

6. Rationale for change:
Making MARA 363 a required course is necessary for achieving the MARA department's AACSB accreditation goal.

---

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=A0F9E7FA-9A92-4F11-2756AD3BBFF01D50

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:
Joan P. Mileski  2-15-16  3/13/16
Department Head or Program Chair (Name & Sign)  Date

Diana Lay  2-26-16
Chair, College Review Committee  Date

Dean of College  Date

Chair, GC or UCC  Date

E-MAILED
NK 2-16-16

Questions regarding this form should be directed to Curricular Services at 845-8101 or sample@williamfordham.edu
Curricular Services – 04/14
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.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Fall Semester</th>
<th>(Th-Pr)</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARA 205</td>
<td>Introduction to Ships and Shipping †</td>
<td>(3-2)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Business Math I</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>Elective in American History</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Spring Semester</th>
<th>(Th-Pr)</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARA 250</td>
<td>Management Information Systems †</td>
<td>(2-0)</td>
<td>2</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Business Math II</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Communication</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective in American History</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective in Life and Physical Sciences $</td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>16</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>Fall Semester</th>
<th>(Th-Pr)</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 229</td>
<td>Introduction to Accounting †</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<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 †</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Communication</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective in Life and Physical Sciences $</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>
### Spring Semester
- **ACCT 230**: Introduction to Accounting ♦ 3
- **ECON 203**: Principles of Economics ♦ 3
- **MARA 212**: Business Law ♦ 3
- **MARA 231**: Seminar in Undergraduate Research Methods ♦ 1
- **MARA 304**: Ocean Transportation II ♦ 3
- **POLS 207**: State and Local Government ♦ 3

**Total**: 16

### Fall Semester
- **MARA 373**: Management Processes ♦ 3
- **MARA 421**: Personnel Management ♦ 3
- **SCMT 303**: Admiralty Law ♦ 3
- **Elective in MARA ♦**: Statistical Methods ♦ 3
- **Elective in MARA ♦**: 3

**Total**: 15

### Spring Semester
- **MARA 440**: Global Economy and Enterprise Management ♦♦ 3
- **Mgmt 481**: Seminar in Management ♦ 1
- **Elective in Creative Arts**: 3
- **Elective in Language, Philosophy and Culture**: 3
- **Elective in MARA ♦**: 3
- **Elective in MARA ♦**: 3

**Total**: 15

### Total Hours to be completed prior to admission to the graduate courses
92

### SENIOR YEAR/FIRST YEAR OF FIVE-YEAR PROGRAM
#### Fall Semester
- **MARA 636**: Managerial Decision Making ♦ 3
- **MARA 641**: Financial Management in Marine Transportation ♦ 3
- **MARA 627**: Marketing of Transportation Services ♦ 3
- **Elective in MARA ♦**: Undergraduate MARA Elective ♦ 3
- **Elective in MARA ♦**: Undergraduate MARA Elective ♦ 3

**Total**: 15

### Spring Semester
- **MARA 623**: Economics Issues in Shipping ♦ 3
- **MARA 664**: Production, Operations and Logistics Management ♦ 3
- **MARA 610**: International Strategic Planning and Implementation ♦ 3
- **Elective in MARA ♦**: Undergraduate MARA Elective ♦ 3

**Total**: 12

### SECOND YEAR OF FIVE-YEAR PROGRAM
#### Fall Semester
- **MARA 624**: Intermodal Transportation Operations ♦ 3
- **MMAL Elective ♦**: Graduate MMAL Elective ♦ 3
- **MMAL Elective ♦**: Graduate MMAL Elective ♦ 3
- **Elective (General)**: 4

**Total**: 13

#### Spring Semester
- **MMAL Elective ♦**: Graduate MMAL Elective ♦ 3
- **MMAL Elective ♦**: Graduate MMAL Elective ♦ 3
- **MMAL Elective ♦**: Graduate MMAL Elective ♦ 3

**Total**: 12

**Total Hours**: 144

*Added other course (3 hours credit by exam)* 150

---

78
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, 203, ACCT 228, 230, and SCM 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.

π The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses.

V MARA Electives: Students are required to complete 21 credit hours of MARA electives that must include MARA 424 to satisfy the intensive writing requirement. Students should choose 6 from the following courses:

ACCT 315, 316; ECON 311, 323, 452; SCMT 336; MARA 342, 401, 402, 416, 424, 435, 450, 460, 470, 484, 485 or 489.

* Choose 15 credit hours from the following graduate level MMAL elective courses: MARA 604, 616, 640, 650, 652, 658, 660, 670, 672, 673, 684, 685, 688, 691; or MARS 626, 640, 660, 676.

*MARA 466 Added other course (3 hours credit by exam)
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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**Other Course Information**

Transfer: 0.000 0

This is NOT an official evaluation.

**Area:** Major Coursework (50.000 credits) - Not Met

**Description:** Minimum 2.25 GPR required in Major Coursework.

### Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute C Credits Courses

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*No Change is necessary*

unofficial evaluation

Area: Supporting Coursework (21.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

Area: Communication (6.000 credits) - Not Met

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| No | A. | Communication Requirement:
| No |   | Select 6 hours from any courses with the Communication attribute [COM]. |

Total Credits and GPA 0.000

unofficial evaluation

Area: Mathematics (6.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

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

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| No | A. | Life/Physical Sciences 8hrs
| No |   | Select 9 hours from any courses with the Life and Physical Sciences attribute [LPS]. |

Total Credits and GPA 0.000

https://compass-ssb.tamu.edu/pls/PROD/bwckapp/P_VerifyDispEvalViewOption 2/12/2016
unofficial evaluation

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

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<td>Select any course with the Language, Philosophy and Culture attribute [KLPC].</td>
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Total Credits and GPA 0.000

unofficial evaluation

Area: Creative Arts (3.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

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

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Total Credits and GPA 0.000

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

Area: General Electives (7.000 credits) - Not Met

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Total Credits and GPA 0.000

unofficial evaluation

| Area: Work Not Applied - Met |
| Description: See advisor for acceptable substitutions. |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Courses not applied |

Total Credits and GPA

unofficial evaluation

| Area: University Writing Requirement - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Writing Requirement |
| Select two courses with the Writing Requirement [UWRT] attribute. |

Total Credits and GPA 0.000

unofficial evaluation

| Area: Int'l & Cult Diversity - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Int'l & Cultural Diversity |
| 6 hours required. Select from courses with the International and Cultural Diversity attribute [UCID]. |

Total Credits and GPA 0.000

unofficial evaluation

| Area: Foreign Language - Not Met |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Foreign Language Reqmt |
| Complete one of the following: |
| 1. Two years of the same foreign language in High School. |
| 2. A two semester sequence of the same foreign language for University credit. |

Total Credits and GPA 0.000

unofficial evaluation

| Area: GPR-Major - Not Met |
| Description: Must have a minimum GPA of 2.25 must be maintained on all major field of study courses. |
| Met | Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses |
| No | A. Major GPR 71.4 hrs |

Includes ACCT 220, 230, 315, 316; ECON 203, 311, 323, 452; SCMT 303, 336; MARA 100-499 & MARA 623, 624; MGMT 481.

unofficial evaluation

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<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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unofficial evaluation

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Print

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

2/12/2016
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 GPR 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 (GE) 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 FREN 601 or GERM 603 may be used.

Advisory Committee: The Advisory Committee consists of the chair of the advisory committee.

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 GPR 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 GPR of at least 3.000 (listed as "Program GPA" below),
2. must have a Degree Plan GPR 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.

Program: MML (Galv) 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 2015 - Galveston
Evaluation Term: Spring 2016 - Galveston
Expected Graduation Date: Request Number: 4
Results as of: Feb 12, 2016

Met Credits

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*No change is necessary*

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

2/12/2016
This is NOT an official evaluation.

### Courses for Degree Plan GPR - Not Met

**Description:** A minimum degree plan GPR of 3.000 is required. Courses with grades of D, F or U are not acceptable for degree plan credit and must be with a grade of C or better or Satisfactory (S).

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unofficial evaluation

### Courses Not Applied - Met

**Description:** See Graduate Committee Chair or Graduate Advisor for acceptable changes to degree plan coursework.

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unofficial evaluation

### 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

### S/U Degree Plan Courses - Not Met

**Description:** A grade of S is required in all courses listed.

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unofficial evaluation

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*No Change is necessary*
# TEXAS A & M GALVESTON
## MARITIME ADMINISTRATION - FIVE YEAR PROGRAM THESIS OPTION

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### UIN ____________________________

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| **SOPHOMORE YEAR**             |    |    |              |     |     |
| Fall Semester                  |    |    |              |     |     |
| ACT 230\^2 Act Principles I    | 3  |    |              |     | preq|
| History Elective               | 3  |    |              |     | preq|
| Communications Elective\^2     | 3  |    |              |     | preq|
| MARA 301 Ocean Transportation I | 3  |    |              |     | preq|
| MGMT 211                       | 3  |    |              |     | preq|
| DEPT SIGN                      |    |    |              |     |     |
| **Spring Semester**            |    |    |              |     |     |
| ACCT 230\^2 Act Principles II  | 3  |    |              |     | preq|
| ECON 203 Microeconomic Principles | 3  |    |              |     | preq|
| MARA 212 Business Law          | 3  |    |              |     | preq|
| MARA 281 Seminar in Research | 1  |    |              |     | preq|
| MARA 204 Ocean Transportation II | 3  |    |              |     | preq|
| PCL 207 State and Local Government | 3  |    |              |     |     |
| DEPT. SIGN                     |    |    |              |     |     |

| **JUNIOR YEAR**                |    |    |              |     |     |
| Fall Semester                  |    |    |              |     |     |
| SCM 303 Business Statistics   | 3  |    |              |     | preq|
| MARA 373 Human Resource Mgmt  | 3  |    |              |     | preq|
| MARA 421 Admiralty Law         | 3  |    |              |     | preq|
| MARA 353                       | 3  |    |              |     | preq|
| Elective in MARA\^2 (must take MARA 416 to satisfy writing intensive requirement) | 3  |    |              |     | preq|
| DEPT SIGN                      |    |    |              |     |     |
| **Spring Semester**            |    |    |              |     |     |
| Elective in Creative Arts      | 3  |    |              |     |     |
| MARA 440\^2 Global Econ & Entr. Mgmt | 3  |    |              |     | preq|
| MGMT 481 - Senior Seminar      | 1  |    |              |     | preq|
| Elective in Language, Philosophy & Culture | 3  |    |              |     | preq|
| Elective in MARA\^2            | 3  |    |              |     | preq|
| Elective in MARA\^2            | 3  |    |              |     | preq|
| DEPT. SIGN                     |    |    |              |     |     |

| **SENIOR YEAR**                |    |    |              |     |     |
| Fall Semester                  |    |    |              |     |     |
| MARA 636 Mgmt Decision Making | 3  |    |              |     | preq|
| MARA 641 Fin. Mgmt in Marine Trans | 3  |    |              |     | preq|
| MARA 627 Mgmt of Trans Services | 3  |    |              |     | preq|
| Elective in MARA\^2            | 3  |    |              |     | preq|
| Elective in MARA\^2            | 3  |    |              |     | preq|
| **Spring Semester**            |    |    |              |     |     |
| MARA 623 Econ Issues in Shipping | 3  |    |              |     | preq|
| MARA 666 Prod., Op & Logistic Mgmt | 3  |    |              |     | preq|
| Elective in MARA\^2            | 6  |    |              |     | preq|
| Elective in Science\^1         | 4  |    |              |     | preq|
| DEPT. SIGN                     |    |    |              |     |     |

| **FIFTH YEAR**                 |    |    |              |     |     |
| Fall Semester                  |    |    |              |     |     |
| MARA 624 Intermodal Trans, Ops | 3  |    |              |     | preq|
| Graduate Level MMAL Elective\^3 | 3  |    |              |     | preq|
| Graduate Level MMAL Elective\^4 | 3  |    |              |     | preq|
| General Elective               | 4  |    |              |     | preq|
| **Spring Semester**            |    |    |              |     |     |
| Graduate Level MMAL Elective\^5 | 3  |    |              |     | preq|
| Graduate Level MMAL Elective\^6 | 3  |    |              |     | preq|
| MARA 610 STRategic Planning   | 3  |    |              |     | preq|
| CREDIT by EXAMINATION\^s        | 3  |    |              |     | preq|

### 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 Choose from MARA electives: ACCT 315, 316, ECON 311, 323, 452, SCM 336, MARA 342, 491, 402, 416, 435, 460, 475, 484, 485, 489, 491, 493
4 Choose from Graduate Level MMAL electives: MARA 659, 652, 640, 616, 658, 660, 604, 670, 672, 675 MARS 620, 640, 660, 676
s Credit by examination given for MARA 466

---

**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 990 course

---

Revised: 2/15/2016

C:sers\sudlow\Desktop\Forms\3+2 Program THESIS - Advising Sheet with MIGNT211 required
# TX A & M Galveston Maritime Administration - Five Year Program Non-Thesis Option-License Option

**NAME**

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**JUNIOR YEAR**

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**SENIOR YEAR**

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**FIFTH YEAR**

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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 Choose from MARA electives: ACCT 315, 316, ECON 311, 323, 452, SCNT 336, MARA 340, 401, 402, 416, 435, 460, 475, 489, 489, 499, 493

4 Choose from Graduate Level MMAL electives: MARA 650, 652, 660, 660, 660, 650, 650, 670, 672, 675 MARA 620, 640, 640, 676

5 Credit by examination given for MARA 466

---

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  
<sup>3</sup> - Writing intensive if Section 900 course

Revised: 02/15/2016
SPECIAL CONSIDERATION
SPECIAL CONSIDERATION

COLLEGE OF ENGINEERING
DEPARTMENT OF NUCLEAR ENGINEERING
BS IN RADIOLOGICAL HEALTH ENGINEERING
REQUEST TO DISCONTINUE DEGREE PROGRAM
MEMORANDUM

TO: Faculty Senate
   Texas A&M University

THROUGH: Undergraduate Council
         Texas A&M University

THROUGH: Dr. Ann L. Kenimer
         Associate Provost
         Undergraduate Studies

THROUGH: Dr. N.K. Anand
         Executive Associate Dean
         College of Engineering

THROUGH: Dr. Valerie Taylor
         Senior Associate Dean
         Academic Affairs Dean for Graduate Programs
         College of Engineering

FROM: Yassin A. Hassan
      Head
      Department of Nuclear Engineering

SUBJECT: Elimination of the Major of Radiological Health Engineering

The Nuclear Engineering faculty met several times for discussion and preparing the process for elimination of the major in Radiological Health Engineering. The minor in Radiological Health Engineering will remain in the department. The date of the program closure is September 2020. The Department is preparing a request for ABET program accreditation until 2020.

The Teach-Out Plan for the Major in the Radiological Health Engineering is attached.
Teach-out Plan

Radiological Health Engineering
College of Engineering
Texas A&M University

Adapted from the Southern Association of Colleges and Schools Commission on Colleges Substantive Change for Accredited Institutions of the Commission of Colleges.

1. Date of program closure.

Spring 2020.

2. An explanation of how affected parties (students, faculty, staff) will be informed of the impending closure.

Students in the program will be called to a meeting to discuss the future of the RHEN program. The Department Head, Associate Head, Undergraduate Advisor, Undergraduate Program Coordinator and associated faculty members will be in attendance. The students will be reassured that the department is committed to seeing that they have the available resources to complete their degree.

3. An explanation of how students will be helped to complete their programs of study with minimal disruption or additional expense.

The department did an assessment of the remaining courses for the students. There are only two course offerings in the department, NUEN 475 and NUEN 479, which will be continued to be offered. All other coursework will be continued to be offered by departments not in the College of Engineering. All supporting coursework currently is embedded in degrees across the university.

The department is preparing a request for extension of ABET program accreditation until 2020.

4. Signed copies of teach-out agreements with other institutions, if any.

N/A.

5. How faculty and staff will be redeployed or helped to find new employment

N/A.

6. If closing an institution, arrangement for the storing of student records, disposition of final financial resources and other assets

3133 TAMU
College Station, TX 77843–3133

Tel. 979.845.4161 Fax. 979.845.6443
nuclear.tamu.edu
7. Please provide the following additional information:
   a. How many students are currently enrolled in the program? 65
   b. Projected graduation date for the last student(s) in the program? Spring 2020

NOTE: If students will not be moved to another program, you will need to extend the program closure
date in order to continue to award degrees to current students under the existing program.
SPECIAL CONSIDERATION

SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF PUBLIC HEALTH STUDIES
MINOR IN OCCUPATIONAL HEALTH AND SAFETY
REQUEST FOR A NEW MINOR
Texas A&M University  
Proposed Minor Field of Study

Name of Minor Program: Occupational Health and Safety

Department: Public Health Studies

College: School of Public Health

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 __12__ hours of course work are required.
   PHLT 331
   PHLT 333
   PHLT 432
   PHLT 434

B. Select __3__ hours from the following courses.
   PHLT 305
   PHLT 330
   
   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 __15__ hours required.

   Minimum of 6 hours at 300- to 400-level

   Minimum 2.0 TAMU GPA, U2 or higher classification, completed minor form in the Public Health Studies Advising Office

Reviewed and approved by:

Department Head/Program Director  1-6-15

Date

AOC Dean of College

RECEIVED
MAR 07 2016

LEGAL SERVICES
MEMORANDUM

DATE: February 8, 2016

TO: Mark Benden  
Department Chair Environmental & Occupational Health  
School of Public Health

FROM: César O. Malavé
Professor and holder of the Sugar and Mike Barnes Department Head Chair  
in Industrial and Systems Engineering

SUBJECT: Occupational Health Minor for Undergraduates

Per your request, I have reviewed your proposal for the following proposed minor consisting of the following five courses:

PHLT 331 Occupational Safety and Health I
PHLT 333 Accident Investigation
PHLT 432 Human Factors and Ergonomic Health
PHLT 434 Project Costs Benefits and Economics
PHLT 455 Applications in Public Health
PHLT 330 Environmental Health OR PHLT 305 Epidemiology in Public Health

The TAMU Department of Industrial and Systems Engineering does not have any equivalent minors which would conflict with this proposed Occ Health minor.
SPECIAL CONSIDERATION

COLLEGE OF SCIENCE
DEPARTMENT OF BIOLOGY
MINOR IN BIOINFORMATICS
REQUEST FOR A NEW MINOR
MEMORANDUM

TO: Dr. Timothy Scott, Associate Dean for Undergraduate Programs and Development

FROM: Thomas D. McKnight, Professor and Head of Biology

SUBJECT: Bioinformatics Minor

Attached are the forms to establish a bioinformatics minor. Although we propose that the minor be administratively housed in the Department of Biology, we have structured the required and elective courses to allow participation by students from a wide variety of departments across campus. Departments or programs that are responsible for non-BIOL courses (Statistics, Computer Science and Engineering, Biochemistry, the College of Veterinary Medicine) have been contacted. The CVM was the only entity to respond (see attached e-mail), but none of the others have objected to including their courses in this minor.
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Bioinformatics

Department: Biology

College: Science

Will grant a minor: ☑ Yes ☐ No  Academic Year: 2017

A selection from among the following courses will constitute a minor field of study.

A. The following 10 hours of course work are required.
   (1) Introduction to computation
   CSCE 110 (4 cr) or CSCE 111 (4 cr)
   (2) Bioinformatic fundamentals
   BIOL 451 (3 cr)
   (3) Computational bioinformatics
   BIOL 350 (BIOL 470 beginning Fall 2016) (3 cr)

B. Select 6-7 hours from the following courses.
   (4) Biological molecules and processes
   BIOL 213 (3 cr) or
   GENE 302 (3 cr) or
   GENE/BIMS 320 (3 cr)
   (5) Applied bioinformatics
   BIOL 450 (4 cr) or
   BICH 464 (3 cr) or
   BICH/GENE 419 (3 cr) or
   VTPP 438 (3 cr) or
   (5 continued) Applied bioinformatics
   BIOL 430 (4 cr) or
   STAT 446 (3 cr)

Please indicate further requirements such as grade point requirement, prerequisites, resident (if above the minimum 6 hours at the 300- to 400-level), capstone or methods courses.

Minimum of 16 hours required.

Minimum of 6 hours at 300- to 400-level

Students must complete at least 1 course in each of the five categories. If a course in statistics is not already required for student's major then STAT 211, 301, 302, or 303 is strongly recommended. Independent research experiences through 491 courses is encouraged.

Reviewed and approved by:

Department Head/Program Director

Date

AOC Dean of College

Date
Minor in Bioinformatics
In the early 21st century we have gained the ability to decipher and (in some cases) manipulate the genetic instructions of living organisms. We have also seen dramatic advances in imaging technologies from the macro to nano scales (Satellites/UAVs, hyper-spectral imaging, GPS, MRI, confocal and two-photon microscopy, x-ray crystallography, etc.). Concomitant with, and underlying these advances, has been a revolution in information technology in which we have seen ever-accelerating computational processing speeds and ever more massive data sets. These changes are driving a fundamental transformation of the biological sciences.

In order to provide our students with the educational foundation they need to not just flourish, but to lead in this dramatically altered environment, we are instituting a new minor in the area of Bioinformatics, to provide effective training at the interface of biological applications and computational tools. While students will be trained using the most advanced instruments, tools and applications available, the minor will focus on core concepts and approaches, to provide a durable skill set that can be applied to new tools and applications that will inevitably arise at an accelerating rate. The core curriculum of the minor will cover the essentials of effective computation, as well as the handling, exploration and utilization of large data sets.

Core curriculum (16-17 cr total): A student must complete at least one course in each of 5 categories. In addition, while not required, independent research is strongly encouraged.

Introduction to computation (4 cr)
Choose one of the following courses:
CSCE 110, Programming I (4 cr)
CSCE 111, Introduction to Computer Science Concepts and Programming (4 cr)

Biological molecules and processes (3 cr)
Choose one of the following courses:
BIOL 213, Molecular and Cell Biology (3 cr)
GENE 302, Principles of Genetics (3 cr)
GENE/BIMS 320, Biomedical Genetics (3 cr)

Bioinformatics fundamentals (3 cr)
BIOL 451, Bioinformatics

Computational bioinformatics (3 cr)
BIOL 350 (BIOL 470/670 in fall 2016), Computational biology (3 cr)

Applied bioinformatics (3-4 cr)
Choose one of the following:
BIOL 450, Genomics (4 cr)
BICH 464, Bacteriophage Genomics (3 cr)
BICH/GENE 419 Computational Techniques for Evolutionary Analysis
VTPP 438, Analysis of Genomic Signals (3 cr)
DIOL 430, Biological Imaging (4 cr)
STAT 446, Statistical Bioinformatics (3 cr)

Independent research
Independent experiences that are tailored to student interests and administered through 491 Research courses offered in multiple departments/programs are strongly encouraged.

NOTE: If a course in statistics is not already required for the student’s major then STAT 211, 301, 302, or 303 is strongly recommended.
Dear Kathy, I apologize for my delay in responding. I have been traveling.

I understand that Dr. David Threadgill is in contact with Dr. McKnight about a broader joint effort with BIMS. I think it would be fine to include BIMS courses in your minor, but I hope we can develop a certificate jointly.

Yours truly,

Evelyn Tiffany-Castiglioni, Ph.D.
Professor and Head
Department of Veterinary Integrative Biosciences
Associate Dean for Undergraduate Education
College of Veterinary Medicine & Biomedical Sciences
Texas A&M University
College Station, TX 77843-4458
Phone: 979/845.3268
FAX: 979/847.8981
ecastiglioni@cvm.tamu.edu

From: Kathryn Ryan [mailto:kryan@bio.tamu.edu]
Sent: Thursday, February 04, 2016 12:48 PM
To: Castiglioni, Evelyn <ECASTIGLIONI@cvm.tamu.edu>
Subject: including courses in new minor

Dr. Tiffany-Castiglioni,

The Department of Biology has developed a plan for offering a minor in Bioinformatics. In recognizing the multidisciplinary nature of bioinformatics and trying to provide greatest
flexibility to students, we feel that some courses your department currently offers would be appropriate options for students. We have also structured the minor so that newly developed courses can easily be incorporated. Please review the attached plan and let us know if we may include your courses in our plan or if we should remove them. A response by Feb. 12 would be appreciated.

Thank you
Kathy

Kathryn J. Ryan, Ph.D.
Chair Undergraduate Programs Committee
Department of Biology
Texas A&M University

3258 TAMU
College Station, TX 77845

phone: 979-862-1616
e-mail: kryan@tamu.edu