The Undergraduate Curriculum Committee recommends approval of the following:

1. **New Courses**

   **BMEN 458. Motion Biomechanics.**(3-0). Credit 3. 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. Prerequisites: BMEN 207 or approval of instructor; junior or senior classification.

   **RPTS 381. Visitor and Resource Protection II.**(2-0). Credit 2. Fundamental values and operations of the visitor and resource protection branch of the National Park Service; law enforcement, customer service, ethics and team cohesion. Prerequisites: RPTS 380; junior or senior classification; approval of instructor.

2. **Change in Courses**

   **ENGR 111. Foundations of Engineering I.**

   Prerequisites
   From: Corequisite: MATH 151; admission to the College of Engineering.
   To: Corequisite: MATH 150 or MATH 151; admission to the College of Engineering.

   **ENGR 112. Foundations of Engineering II.**

   Prerequisites
   From: ENGR 111, MATH 151.
   To: ENGR 111; MATH 151 or concurrent enrollment; admission to the College of Engineering.

   **RPTS 304. Administration of Recreation Resource Agencies.**

   Prerequisites
   From: RPTS 201 and RPTS 209; RENR 201.
   To: RPTS 201.

   **RPTS 336. Research and Analysis in Recreation and Tourism.**

   Prerequisites
   From: RENR 201 and STAT 201 or equivalents; all mathematics requirements satisfied.
   To: RENR 201 or RPTS 230 or equivalent; STAT 201 or equivalent; all mathematics requirements satisfied.

   **RPTS 421. Planning and Implementation of Events in Resorts and Hotels.**

   Course title
   From: Planning and Implementation of Events in Resorts and Hotels.
   To: Hotel and Resort Operations.

   Course description
From: Principles and applications for effective planning and management of events in resorts and hotels; planning, promotion, operational logistics, sponsorship and evaluation.

To: 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.

**RPTS 484. Internship.**

Prerequisites

From: Approval of department head.

To: RPTS 311, RPTS 340 and RPTS 481.
3. Change in Curriculum

**College of Science**
Department of Physics and Astronomy
Minor in Physics
4. Texas A&M University at Galveston

   a. 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
5. Special Consideration

**College of Engineering**  
Department of Nuclear Engineering  
BS in Radiological Health Engineering  
Request to discontinue degree program
6. Special Consideration

**School of Public Health**

Department of Public Health Studies

Minor in Occupational Health and Safety

Request for a new minor
7. Special Consideration

**College of Science**
Department of Biology
Minor in Bioinformatics
Request for a new minor
NEW COURSES
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, 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.

approval

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

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

13. Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code |
-----------|-----------|--------------------------------|-------|-----|-------|-----|-----------------|------------|------------|-----------|
BMEN | 458 | MOTION BIOMECHANICS | 3.00 | 0.00 | 0.00 | 3.00 | 1405010006 | 0450 | 17 - 18 | 0 0 3 6 3 2 |

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

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

RECEIVED
FEB 19 2016
EASA

CURRICULAR SERVICES

FEB 24 2016
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).
Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Lab Reports</td>
<td>40 %</td>
</tr>
<tr>
<td>Tests (2)</td>
<td>25 % each</td>
</tr>
<tr>
<td>Project</td>
<td>10 %</td>
</tr>
</tbody>
</table>

There is no Final Exam for this class

Final grades are expected to be distributed according to the following percentage scale, and may be scaled (curved) to match class performance:

\[ A = 90–100\%, \ B = 80–89.9\%, \ C = 70–79.9\%, \ D = 60–69.9\%, \ F < 60\% . \]

Course Outline (subject to change as necessary):

- Week 1 Movement terminology, bone and muscle anatomy and physiology
- Week 2 Muscle function, library research skills
- Week 3 Muscle function
- Week 4 Muscle physiology, electromyography
- Week 5 Electromyography signal processing
- Week 6 Force platforms, human balance
- Week 7 Force platform signal processing
- Week 8 Motion analysis systems, link-segment modeling
- Week 9 Kinematic data processing
- Week 10 Kinematic data processing
- Week 11 Inverse dynamics analyses
- Week 12 Project presentations
- Week 13 Project presentations
- Week 14 Inverse dynamics analyses

Lab Reports: Each lab will culminate in a lab report that must be written in the format of a typical journal article. It should document the experiment and your results, and answer questions on the lab assignment. You must also quantitatively compare your results to at least two peer-reviewed journal articles in each lab report. (This means you need to explicitly compare some numbers derived from your analysis with numbers from other studies.) You are encouraged to discuss approaches to problems with your classmates, but your final MATLAB code and lab report must be your own independent work. Lab reports should be no longer than 2 pages (one side is a page), and font no smaller than 11 point. Students in BMEN 658 will be required to answer additional questions on lab reports, reference at least five peer-reviewed journal articles in each lab report, and their reports should be no longer than 3 pages.

Project: The project consists of a written paper and class presentation summarizing the current state of knowledge on a topic related to musculoskeletal biomechanics. Some possible general topic areas include: falls in the elderly, low back pain/injury, gait, and athletic performance. The paper’s content should also have a healthy amount of quantitative biomechanical data. You are not expected to perform any kind of analysis for this paper. It is meant to be a literature review of a topic of your choosing. During your presentations, your audience is the class (not me) and you will be expected to teach the class about your topic because everyone will be tested over the material presented. The written paper will be a maximum of 3 pages in length (single spaced), and the class presentation will be 10-12 minutes. Your paper should cite at least five references, with at least three different journals and three different sets of investigators. Web pages do not count as references. Assume your audience for the presentation and paper is your class. For students in BMEN 458, you will work in groups of two. For students in BMEN 658, you will work by yourself.

The paper will count as 50% of your project grade, and the presentation 50% of your project grade.
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](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](http://aggiehonor.tamu.edu)
Texas A&M University
Departmental Request for a New Course
Undergraduate ✐ Graduate ✐ Professional
Submit original form and attach a course syllabus.

Form Instructions

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

Cross-listed with: Stacked with:

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

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

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

11. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.
12. ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

13. Prefix Course # Title (excluding punctuation)
    RPTS 381 Visitor Resource Protection II

<table>
<thead>
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<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>HCE Code</th>
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<td>18 0 3 6 3 2</td>
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</tbody>
</table>

Approval recommended by:
Gary D. Ellis, PhD
Department Head or Program Chair (Type Name & Sign) Date 2/24/16
Chair, College Review Committee Date 3/3/16

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)
Dean of College Date 3/17/16

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

Associate Director, Curricular Services

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

- 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.
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.

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

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- 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 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, JD, 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 I

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

4. Change requested:
   a. Prerequisite(s): From: Corequisite: MATH 151; admission to Dwight Look College of Engineering. To: Corequisite: MATH 150 or 151; admission to Dwight Look College of Engineering.
   b. Withdrawal (reason):
   c. Cross-list with:

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

4d. 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.

4e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?

☐ Yes  ☑ No

6. If grade type is changing for existing course, indicate the new grade type:

☐ Grade ☐ S/U ☐ P/F (CLMD)

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

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

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

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

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

11. a. As currently in course inventory:

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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) (If cross-listed course) Date

Dean of College Date

Submitted to Coordinating Board by:

Chair, GC or UCC Date

Effective Date

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

Engineers change the world.

This e-mail and any files transmitted with it are confidential. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited. If you have received this e-mail transmission in error, please notify me by telephone or via return e-mail and delete this e-mail with all information from your system.
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
   - Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

4. Change requested:
   a. Prerequisite(s):
      - From: ____________________________
      - To: ____________________________
      
   b. Withdrawal (reason):
      - ____________________________

   c. Cross-list with:

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.

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

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

7. If this course will be stacked, please indicate the course number of the stacked course:
   - I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

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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
Curricular Services – 08/14

Received by Curricular Services FEB 24 2016
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

Engineers change the world.

This e-mail and any files transmitted with it are confidential. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited. If you have received this e-mail transmission in error, please notify me by telephone or via return e-mail and delete this e-mail with all information from your system.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments.

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (D.D.S., M.D., J.D., Pharm.D., D/V.M.)
2. Request submitted by (Department or Program Name): Department of 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; RENR 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. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
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<td>Admin of Rec Resource Agencies</td>
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   b. Change to:

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</tr>
</tbody>
</table>

   Approval recommended by:
   Gary D. Ellis, PhD
   Department Head or Program Chair (Type Name & Sign) Date 2/17/16

   Chair, College Review Committee Date 3/7/16
   Dean of College Date 3/7/16

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

   Submitted to Associate Director, Curricular Services Date 8/14

   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
   - Prerequisite(s): From:
     - mathematics requirements satisfied.
   - To:
     - mathematics requirements satisfied.
   - Withdrawal (reason):
   - Cross-list with:

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

   - Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

11. As currently in course inventory:

<table>
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<tr>
<th>Prefix</th>
<th>Course #</th>
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<td>336</td>
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   - 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 |

   - Change to:

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

   - Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |

   Approval recommended by:
   Gary D. Ellis, PhD
   Department Head or Program Chair (Type Name & Sign) Date 2/7/16
   Date

   Chair of College Review Committee
   Kim Hooley Date 3/7/16

   Chair of College
   Date

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

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

Received 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 (DMD, JD, JI, DVM, 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
4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: ___________________________
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   Planning and Implementation of Events in Resorts and Hotels
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 interact; 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. a. As currently in course inventory:

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b. Change to:

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Approval recommended by: Gary D. Ellis, PhD
Department Head or Program Chair (Type Name & Sign) Date
3/1/16

Chair, College Review Committee Date
3/16

Dean of College Date
3/16

Chair, GC or UCC

Submitted to Coordinating Board by: Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 08/14
RPTS 421 Change in Course

Current name & Description:

Planning and Implementation of Events in Resorts and Hotels. Principles and applications for effective planning and management of events in resorts and hotels; planning, promotion, operational logistics, sponsorship and evaluation.

Proposed name & Description:

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.

Justification:

This course is part of the on-line Certificate in Hospitality. Faculty determined that the revised content is needed by students entering this field. The event-oriented content is available to students through other courses offered by the RPTS department.
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  
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:  
   ☐ S/U  ☐ P/F (CLMD)  
7. If this course will be stacked, please indicate the course number of the stacked course:  

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

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

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

Chair, College Review Committee  
Date  
Dean of College  
Date  

Submitted to Coordinating Board by:  
Associate Director, Curricular Services  
Date  
Chair, GC or UCC  
Date  
Effective Date  

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

[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:

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

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

5. 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.

6. 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 that 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  2/9/2016

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

Dean of College  Date

Chair, College Review Committee
3/9/16

Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sendra@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>Credits</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>Modern Physics</td>
<td></td>
</tr>
<tr>
<td>300-400 level physics elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: 17

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:

George R. Welch 3/1/2016

Department Head/Program Director Date

AOC Dean of College Date
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.

unofficial evaluation

Area: General Electives (6.000 credits) - Not Met
Met Condition Rule Subject Attribute Low High Required Credits Required Courses
No A. General Electives 6hrs
Select any 100-499 course not used elsewhere. (exempt AERS 100-299; MATH 100-120, 130-150, 165-166, 365-366; MLSC 100-299; NVSC 100-289; PHYS 201-202, 207-208)

unofficial evaluation

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

unofficial evaluation

Area: Physics Minor (17.000 credits) - Not Met
Description: Minimum of 6 hours at 300-400 level. No grades below a "C" are acceptable.
Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. PHYS 218
Must make a grade of 'C' or better.
No AND B. PHYS 208
Must make a grade of 'C' or better.
No AND C. PHYS 221
Must make a grade of 'C' or better.
<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>D. PHYS-302 or 309</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
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<td></td>
<td></td>
<td>Select from PHYS 302 or 309.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>AND</th>
<th>E. Upper-Level PHYS 3hrs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Must make a grade of 'C' or better.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select from PHYS 300-399 (except PHYS 331-332), or ASTR 314 in consultation with a Department of Physics Advisor.</td>
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unofficial evaluation

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

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Writing Requirement</td>
<td>Two courses required.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Only sections of PHYS 444 or 445 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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unofficial evaluation

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

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<tr>
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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Int'l &amp; Cultural Diversity 6hr</td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 299 with the UWRT attribute).</td>
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unofficial evaluation

**Area: Foreign Language - Not Met**

<table>
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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A.</td>
<td>Foreign Language Rqmt</td>
<td>Complete one of the following:</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in High School.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
<td></td>
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</tr>
</tbody>
</table>

Total Credits and GPA 0.000 0.00
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, JD, MD, etc.)

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

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

4. Program Designation and Name:
   (e.g., B.A. in History, Minor in History, Certificate in European Union):
   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?
       http://www.thecb.state.tx.us/index.cfm?objectid=A0F97F7A-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:
Joan P. Mileski
Department Head or Program Chair (Name & Sign) Date 2-15-16

Debra L. Lay
Date 2-26-16

Chair, College Review Committee
Date

E-MAILED
D.K. 2-16-16

Questions regarding this form should be directed to Curricular Services at 845-8101 or sample@williamstown.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.

### FRESHMAN YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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>3</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
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<td>13</td>
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#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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>
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</tr>
<tr>
<td>Elective in Communication</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in American History</td>
<td></td>
<td>3</td>
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</tr>
<tr>
<td>Elective in Life and Physical Sciences §</td>
<td></td>
<td>5</td>
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<td><strong>Total</strong></td>
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### SOPHOMORE YEAR

#### Fall Semester

<table>
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<th>Course</th>
<th>Description</th>
<th>(Th–Pr)</th>
<th>Cr</th>
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</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>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Life and Physical Sciences §</td>
<td></td>
<td>4</td>
<td></td>
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<td><strong>Total</strong></td>
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<td>16</td>
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<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
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<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------</td>
<td>-------</td>
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</tr>
<tr>
<td>ACCT 230</td>
<td>Introduction to Accounting †</td>
<td>3</td>
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<tr>
<td>ECON 203</td>
<td>Principles of Economics †</td>
<td>3</td>
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</tr>
<tr>
<td>MARA 212</td>
<td>Business Law †</td>
<td>3</td>
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<tr>
<td>MARA 281</td>
<td>Seminar in Undergraduate Research Methods †</td>
<td>1</td>
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<tr>
<td>MARA 304</td>
<td>Ocean Transportation II †</td>
<td>3</td>
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<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
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<tr>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
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</tr>
<tr>
<td>MARA 397</td>
<td>Management Processes †</td>
<td>3</td>
</tr>
<tr>
<td>363</td>
<td>Personnel Management †</td>
<td>3</td>
</tr>
<tr>
<td>MARA 421</td>
<td>Admiralty Law †</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 303</td>
<td>Statistical Methods †</td>
<td>3</td>
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<tr>
<td>Elective in MARA †</td>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>MARA 440</td>
<td>Global Economy and Enterprise Management †</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 481</td>
<td>Seminar in Management †</td>
<td>1</td>
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<tr>
<td>Elective in Creative Arts</td>
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<tr>
<td>Elective in Language, Philosophy and Culture</td>
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<tr>
<td>Elective in MARA †</td>
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<td>3</td>
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<td>Elective in MARA †</td>
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**Total Hours to be completed prior to admission to the graduate courses**

92

<table>
<thead>
<tr>
<th>SENIOR YEAR/FIRST YEAR OF FIVE-YEAR PROGRAM</th>
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<tbody>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>MARA 636</td>
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<tr>
<td>MARA 641</td>
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<tr>
<td>MARA 627</td>
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<tr>
<td>Elective in MARA †</td>
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<td>Elective in MARA †</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>MARA 623</td>
<td>Economics Issues in Shipping</td>
</tr>
<tr>
<td>MARA 664</td>
<td>Production, Operations and Logistics Management</td>
</tr>
<tr>
<td>MARA 610</td>
<td>International Strategic Planning and Implementation</td>
</tr>
<tr>
<td>Elective in MARA †</td>
<td></td>
</tr>
<tr>
<td>Elective in MARA †</td>
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<th>SECOND YEAR OF FIVE-YEAR PROGRAM</th>
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<tr>
<td>MARA 624</td>
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<td>MMAL Elective *</td>
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<td>Graduate MMAL Elective</td>
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<tr>
<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
</tr>
<tr>
<td>MMAL Elective *</td>
<td>Graduate MMAL Elective</td>
</tr>
<tr>
<td>Elective (General)</td>
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<tr>
<td>Total</td>
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**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 GPA. At the time of graduation, a MARA major must have a GPA of ≥ 2.25 in their major. A MARA major must achieve a grade of "C" or better in ECON 202, 205, ACCT 229, 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 at 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.

\( \text{\textit{v}} \)- 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.

\( \text{\textit{v}} \)- 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, 322, 452; SCMT 356; MARA 342, 401, 402, 416, 424, 435, 450, 460, 470, 484, 485 or 489.

\( \text{\textit{*}} \)- 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, 689, 691; or MARS 626, 640, 660, 676.

\( \text{\textit{*}} \)-MAR 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.

Program: [GV] BS MARA - 3+2 Program
Campus: Galveston
College: Galveston Campus
Degree: Bachelor of Science
Level: Undergraduate
Majors: Maritime Administration
Departments: Maritime Administration
Catalog Term: Fall 2015 - Galveston
Evaluation Term: Spring 2016 - College Station
Expected Graduation Date: 
Request Number: 2
Results as of: Feb 12, 2016

Met Credits Courses

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<tr>
<th>Required</th>
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Program GPA: Yes
Overall GPA: No

Other Course Information

Transfer: 2.00

This is NOT an official evaluation.

Area: Major Coursework (50.000 credits) - Not Met
Description: Minimum 2.25 GPA required in Major Coursework.

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

No A. ACCT 229
Must make a grade of "C" or better.

No AND B. ACCT 230
Must make a grade of "C" or better.

No AND C. ECON 203
Must make a grade of "C" or better.

No AND D. SCMT 303
Must make a grade of "C" or better.

No AND E. MARA 205

No AND F. MARA 212

No AND G. MARA 250

No AND H. MARA 281

No AND I. MARA 301

No AND J. MARA 304

No AND K. MARA 363

No AND L. MARA 373

No AND M. MARA 421

*No Change is necessary

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

2/12/2016
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<th>No</th>
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<tr>
<td>No</td>
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<td>O.</td>
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<td>No</td>
<td>AND</td>
<td>P.</td>
<td>MGMT 481</td>
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<td>AND</td>
<td>Q.</td>
<td>MARA 523</td>
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<td>No</td>
<td>AND</td>
<td>R.</td>
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**Total Credits and GPA**

**unofficial evaluation**

**Area : Supporting Coursework (21.000 credits) - Not Met**

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<td>Directed</td>
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Select 18 hours from the following courses: ACCT 315, 316; ECON 311, 323, 452; SCMT 336; MARA 342, 401, 402, 424, 435, 450, 460, 470, 494, 485, 489.

**Total Credits and GPA**

**unofficial evaluation**

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

<table>
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Select 6 hours from any courses with the Communication attribute [KCOM].

**Total Credits and GPA**

**unofficial evaluation**

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

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**Total Credits and GPA**

**unofficial evaluation**

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

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Select 9 hours from any courses with the Life and Physical Sciences attribute [KLPS].

**Total Credits and GPA**

2/12/2016
### Unofficial Evaluation

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

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<td>Lang, Phil, Culture Rqmt 3hrs</td>
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<td>Select any course with the Language, Philosophy and Culture attribute [KLPC].</td>
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#### Unofficial Evaluation

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

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#### Unofficial Evaluation

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

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#### Unofficial Evaluation

#### Area: Citizenship (12.000 credits) - Not Met

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<th>Credits</th>
<th>Courses</th>
<th>Total Credits and GPA</th>
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<tr>
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<td>American History Rqmt 6hrs</td>
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<td>Select 6 hours from any course with the [KCHIS] attribute.</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Political Science Rqmt 6hrs</td>
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<td>Take POLS 206 and POLS 207.</td>
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#### Unofficial Evaluation

#### Area: General Electives (7.000 credits) - Not Met

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<tr>
<td>No</td>
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<td>General Electives 7hrs</td>
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<td>7 hours of coursework required. Must have advisor approval (ENGL 103 and CASN 001-003 are excluded.)</td>
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Total Credits and GPA 0.000

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

2/12/2016
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 [IUCD].

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

<table>
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<th>Area</th>
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<tbody>
<tr>
<td>Description</td>
<td>Student must complete minimum of 36 hours of 300-400 level course work at Texas A&amp;M University, 12 hours must be in field of study.</td>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute Credits Courses</td>
</tr>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
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<tr>
<td>No</td>
<td>AND B. Residence 24hrs</td>
</tr>
</tbody>
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unofficial evaluation

Back to Display Options

Print
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 coursework 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 650 (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 693 (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 FIN 601 or EGRM 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 3.5000 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 C in any course on the degree plan,
3. must have an approved research proposal,
4. must have completed or be registered for all remaining degree plan course work,
5. must be registered in the university,
6. must have the thesis in final form and ready for distribution to all committee members.

Thesis: The final version of the thesis must be cleared by the Office of Graduate Studies no later than one year after the defense or within the seven year time limit, whichever is first.

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<td>Departments</td>
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Met Credits | Courses
---|---
Total Required | Yes
Required | 0.00
Used | 0
Program GPA | No
3.00 | .00
Overall GPA | Yes
.00 | .00
Other Course Information

N/A

This is NOT an official evaluation.

**Area:** Courses for Degree Plan GPR - Not Met

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

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

**No**  
A. No Approved Degree Plan

Total Credits and GPA

unofficial evaluation

**Area:** Courses Not Applied - Met

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

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

**No**  
A. Additional Unused Courses

Total Credits and GPA

unofficial evaluation

**Area:** Graded Degree Plan Courses - Not Met

**Description:** A grade of C or better is required in all courses listed.

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

**No**  
A. No Approved Degree Plan

Total Credits and GPA

unofficial evaluation

**Area:** S/U Degree Plan Courses - Not Met

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

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

**No**  
A. No Approved Degree Plan

Total Credits and GPA

unofficial evaluation

---

No Change is necessary

# Texas A&M Galveston
## Maritime Administration - Five Year Program Thesis Option

### Catalog 

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<td>Elective in Language, Philosophy &amp; Culture</td>
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<td>MATA 666 Prod., Op &amp; Logistic Mgmt</td>
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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 MATA electives: ACCT 315, 316, ECON 311, 323, 452, SCMT 336, MATA 342, 491, 402, 416, 435, 460, 475, 484, 485, 489, 491, 493
5. Credit by examination given for MATA 466

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Legend: T - Credit by Transfer  CR - Credit by Examination  Q - Q-Drop  R - Registered in Current Semester

* - Courses requiring a grade of "C" or better  ⚫ - Writing Intensive if Section 900 course

Revised: 2/15/2016

C:Users\seltowsnap\Desktop\Forms\3-2 Program THESIS - Advising Sheet with MGMT211 required
## Texas A & M Galveston

### Maritime Administration - Five Year Program Non-Thesis Option-License Option

| Course                          | CR | GR | Remark | REQ | Ini | Course                          | CR | GR | Remark | REQ | Ini |
|---------------------------------|----|----|--------|-----|-----|---------------------------------|----|----|--------|-----|-----|---------------------------------|----|----|--------|-----|-----|---------------------------------|----|----|--------|-----|-----|
| **Fall Semester**               |    |    |        |     |     | **Spring Semester**              |    |    |        |     |     | **Fall Semester**               |    |    |        |     |     |
| History Elective                | 3  |    | unreq  |     |     | Communications Elective<sup>2</sup> | 3  |    | unreq  |     |     | History Elective                | 3  |    | unreq  |     |     |
| MARA 205 Ships and Shipping    | 4  |    | prog   |     |     | Econ 202                        | 3  |    | unreq  |     |     | Communications Elective<sup>2</sup> | 3  |    | unreq  |     |     |
| MATH 141 Business Math I       | 3  |    | unreq  |     |     | MATH 250 Mgmt Info Systems      | 2  |    | prog   |     |     | Econ 202                        | 3  |    | unreq  |     |     |
| POLS 206 Nat'l Government      | 3  |    | unreq  |     |     | MATH 142 Business Math II       | 3  |    | unreq  |     |     | MATH 250 Mgmt Info Systems      | 2  |    | prog   |     |     |
| **DEPT SIGN**                  |    |    |        |     |     | Elective in Science<sup>4</sup> | 5  |    | unreq  |     |     | **DEPT SIGN**                  |    |    |        |     |     |
| **Sophomore Year**             |    |    |        |     |     | **Freshman Year**               |    |    |        |     |     | **Sophomore Year**             |    |    |        |     |     |
| ACCT 239<sup>1</sup> Acct Principles I | 3  |    | prog   |     |     | ACCT 230<sup>1</sup> Acct Principles II | 3  |    | prog   |     |     | History Elective                | 3  |    | unreq  |     |     |
| History Elective                | 3  |    | prog   |     |     | History Elective                | 3  |    | unreq  |     |     | Communications Elective<sup>2</sup> | 3  |    | unreq  |     |     |
| Communications Elective<sup>2</sup> | 3  |    | prog   |     |     | Communications Elective<sup>2</sup> | 3  |    | unreq  |     |     | Communications Elective<sup>2</sup> | 3  |    | unreq  |     |     |
| MGMT 211<sup>1</sup>            | 3  |    | prog   |     |     | MGMT 211<sup>1</sup>            | 3  |    | prog   |     |     | MGMT 211<sup>1</sup>            | 3  |    | prog   |     |     |
| MGMT 301 Ocean Transportation I | 3  |    | prog   |     |     | MGMT 301 Ocean Transportation I | 3  |    | prog   |     |     | MGMT 301 Ocean Transportation I | 3  |    | prog   |     |     |
| **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     |
| **Junior Year**                |    |    |        |     |     | **Sophomore Year**              |    |    |        |     |     | **Junior Year**                |    |    |        |     |     |
| SCNT 303<sup>1</sup> Business Statistics | 3  |    | prog   |     |     | SCNT 303<sup>1</sup> Business Statistics | 3  |    | prog   |     |     | SCNT 303<sup>1</sup> Business Statistics | 3  |    | prog   |     |     |
| MARA 373 Human Resource Mgmt    | 3  |    | prog   |     |     | MARA 373 Human Resource Mgmt    | 3  |    | prog   |     |     | MARA 373 Human Resource Mgmt    | 3  |    | prog   |     |     |
| MGMT 241 Admiralty Law           | 3  |    | prog   |     |     | MGMT 241 Admiralty Law           | 3  |    | prog   |     |     | MGMT 241 Admiralty Law           | 3  |    | prog   |     |     |
| **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     |
| **Senior Year**                |    |    |        |     |     | **Junior Year**                |    |    |        |     |     | **Senior Year**                |    |    |        |     |     |
| Elective in MARA<sup>2</sup> (must take MARA 415 to satisfy writing intensive requirement) | 3  |    | prog   |     |     | Elective in MARA<sup>2</sup> (must take MARA 415 to satisfy writing intensive requirement) | 3  |    | prog   |     |     | Elective in MARA<sup>2</sup> (must take MARA 415 to satisfy writing intensive requirement) | 3  |    | prog   |     |     |
| **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     |
| **Fifth Year**                 |    |    |        |     |     | **Senior Year**                |    |    |        |     |     | **Fifth Year**                 |    |    |        |     |     |
| MARA 626 Intermodal Trans. Ops  | 3  |    | prog   |     |     | MGT 640<sup>1</sup> Intermodal Trans. Ops | 3  |    | prog   |     |     | MGT 640<sup>1</sup> Intermodal Trans. Ops | 3  |    | prog   |     |     |
| Graduate Level MMAL Elective    | 3  |    | prog   |     |     | Graduate Level MMAL Elective    | 3  |    | prog   |     |     | Graduate Level MMAL Elective    | 3  |    | prog   |     |     |
| Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     | Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     | Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     |
| General Elective                | 4  |    | prog   |     |     | General Elective                | 4  |    | prog   |     |     | General Elective                | 4  |    | prog   |     |     |
| **Graduate Level MMAL Elective<sup>4</sup>** | 3  |    | prog   |     |     | **Graduate Level MMAL Elective<sup>4</sup>** | 3  |    | prog   |     |     | **Graduate Level MMAL Elective<sup>4</sup>** | 3  |    | prog   |     |     |
| Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     | Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     | Graduate Level MMAL Elective<sup>4</sup> | 3  |    | prog   |     |     |
| **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     | **DEPT SIGN**                  |    |    |        |     |     |
| **Comments:**                  |    |    |        |     |     | **Comments:**                  |    |    |        |     |     | **Comments:**                  |    |    |        |     |     |

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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 311, 312, ECON 311, 323, 452, SCNT 336, MARA 342, 491, 492, 416, 435, 460, 475, 489, 489, 491, 493
5. Credit by examination given for MARA 466

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

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Revised: 2/15/2019
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
Department of Nuclear Engineering

N/A.

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:

[Signatures and dates]

Department Head/Program Director  Date  AOC Dean of College
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

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:

[Signature]

[Signature]

Department Head/Program Director  Date

AOC Dean of College  Date
Minor in Bioinformatics
In the early 21\textsuperscript{st} 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
VTTP 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.
From: "Castiglioni, Evelyn" <ecastiglioni@cvm.tamu.edu>
Date: Tuesday, March 1, 2016 at 7:39 PM
To: Kathy Ryan <kryan@bio.tamu.edu>
Cc: "Threadgill, David W" <DThreadgill@cvm.tamu.edu>, "Castiglioni, Evelyn" <ecastiglioni@cvm.tamu.edu>, "Ivanov, Ivan" <ilivanov@cvm.tamu.edu>, "Crouch, Elizabeth" <ecrouch@cvm.tamu.edu>
Subject: RE: including courses in new minor

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
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Celebrating
CVM 100 Years

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

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College Station, TX 77845

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