The Undergraduate Curriculum Committee recommends approval of the following:

1. **New Courses**

   **AGEC 324. Agribusiness Entrepreneurship – Budgeting. (2-2). Credit 3.** Case study approach to demonstrate a process for evaluating the economic feasibility of a single-enterprise rural or metropolitan business venture; relevant production, marketing and financing costs, in combination with capital ownership and overhead costs; computer spreadsheets including attention to deterministic sensitivity analyses; computer capabilities are essential. Prerequisites: AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 330 or FINC 341 or FINC 409; junior or senior classification or approval of instructor.

   **ANSC 211. Equine Industry and Career Preparation. (2-0). Credit 2.** Identify opportunities and skill sets required to pursue a career in the equine industry; development of resume, communication, professional etiquette and interview skills.

   **ANTH 436. Ancient Egypt. (3-0). Credit 3.** Archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with RELS 436.

   **ENTO 321. Beekeeping. (0-3). Credit 1.** Basic Knowledge and techniques used in apiculture; tools and knowledge needed to keep bees responsibly and productively. Prerequisites: ENTO 320 or concurrent enrollment, junior or senior classification or approval of instructor.

   **ESSM 324. Forest Measurements. (0-4). Credit 2.** Measures and measurement of the dimensions and attributes of forested areas including the diameters, heights, volume and biomass of trees within a well-defined area; tools used for forest measurement; the conduct of forest inventories; summary measures and reports of inventory results; remote sensing and related technologies that assist forest measurements. Prerequisites: ESSM 313 and ESSM 319 or concurrent enrollment; junior or senior classification.

   **FILM 445. Rhetoric of Television and Film. (3-0). Credit 3.** Critical analysis of television and film; close readings of such mediated texts; special attention to writing television and film criticism. Prerequisite: Junior or senior classification. Cross-listed with COMM 435.

   **MEEN 439. Solar Energy Engineering. (3-0). Credit 3.** Solar energy; solar angles and radiation; solar thermal systems; solar water heating and space heating; concentrated solar power; energy storage; solar photovoltaics; solar cell manufacturing; other solar energy technologies. Prerequisite: MEEN 315.

   **MEEN 469. Alternative Energy Conversion. (3-0). Credit 3.** Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g., geothermal, ocean gradients, solar and nuclear fission and fusion) and obtaining energy from the environment (e.g., wind, hydroelectric, ocean tides and waves). Prerequisite: MEEN 315.

   **PETE 337. Junior Student Paper Contest. No Credit.** Presentation of a technical proposal on a subject related to petroleum technology judged by petroleum professionals at the junior level departmental student paper contest. Must be taken on a satisfactory/unsatisfactory basis. Prerequisite: PETE 335.
**PETE 437. Senior Student Paper Contest. No credit.** Presentation of a technical petroleum engineering topic judged by petroleum professionals at the senior level departmental student paper contest. Must be taken on a satisfactory/unsatisfactory basis. Prerequisite: PETE 337; Corequisite: PETE 435.

**RELS 436. Ancient Egypt. (3-0). Credit 3.** Archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with ANTH 436.

2. Withdrawal of Courses

**ESSM 460. Spatial Data Acquisition with Field Methods.**

3. Change in Courses

**COMM 435. Rhetoric of Television and Film.**

    Prerequisites
    From: None.
    To: Junior or senior classification.

    Cross-listing
    From: None.
    To: FILM 445.

**ENTO 291. Research.**

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

**ENTO 484. Professional Internship.**

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

**ENTO 491. Research.**

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

**ESSM 415. Range Analysis and Management Planning.**

    Prerequisites
    From: ESSM 314, junior or senior classification or approval of instructor.
    To: AGEC 105 or ECON 202, ESSM 314, ESSM 317; junior or senior classification or approval of instructor.

Prerequisites
From: RENR 205 and ESSM 320 or ESSM 420; junior or senior classification.
To: RENR 205, ESSM 320, ESSM 420; junior or senior classification.

ESSM 459. Spatial Databases and Programming.

Course title
From: Spatial Databases and Programming.
To: Programming for Spatial Data Applications.

Course description and prerequisites
From: Computational tools for creating new data, sharing, integrating that data with other databases; conducting analyses and interpretation of information ranging from spreadsheets to advanced scientific workflow processing systems; tools to create higher quality, more useful data. Prerequisite: Junior or senior classification or approval of instructor.
To: Programming for spatial data applications in general and for natural resources application in particular; basic programming concepts and constructs for the creation and manipulation of spatial data; automating of processes; programming behind spreadsheet and GIS applications. Prerequisites: ESSM 351 or equivalent, junior or senior classification or approval of instructor.

ESSM 464. Spatial Project Management.

Prerequisites
From: A minimum of two GIS and/or remote sensing courses at 300 or 400-level, junior or senior classification or approval of instructor.
To: ESSM 351 and ESSM 444, junior or senior classification or approval of instructor.

FIVS 291. Research.

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

FIVS 484. Professional Internship.

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

FIVS 491. Research.

Variable credit hours
From: Credit 1 to 4.
To: Credit 0 to 4.
NUTR 430. Community Nutrition.

Prerequisites
From: NUTR 203.
To: NUTR 203; NUTR 301; junior or senior classification.

OCNG 410. Introduction to Physical Oceanography.

Course title
From: Introduction to Physical Oceanography.
To: Physical Oceanography.

Prerequisites
From: MATH 308; junior or senior classification.
To: MATH 152; junior or senior classification.

OCNG 420. Introduction to Biological Oceanography.

Course title
From: Introduction to Biological Oceanography.
To: Biological Oceanography.

OCNG 430. Introduction to Geological Oceanography.

Course title
From: Introduction to Geological Oceanography.
To: Geological Oceanography.

OCNG 440. Introduction to Chemical Oceanography.

Course title
From: Introduction to Chemical Oceanography.
To: Chemical Oceanography.

PSYC 485. Directed Studies

Course description and prerequisites
From: Directed readings or research problems in selected areas designed to supplement existing course offerings. Individual report required. Prerequisites: 12 hours of psychology including completion of PSYC 204; GPR of 2.5 or better in all psychology courses; approval of instructor; major in psychology.
To: Directed readings or research problems in selected areas designed to supplement existing course offerings. May be repeated for credit. Prerequisite: Approval of instructor.
**PSYC 491. Research.**

Course description and prerequisites

- **From:** Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and weekly presentation of student research projects. May be repeated for credit. Prerequisites: PSYC 484 or PSYC 485; junior or senior classification.

- **To:** Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and presentation of student research projects. May be repeated for credit. Prerequisites: PSYC 484 or PSYC 485; approval of instructor.

**RENR 410. Ecosystem Management.**

Prerequisites

- **From:** Senior classification or approval of instructor.

- **To:** RENR 205, senior classification or approval of instructor.
4. Change in Curriculum

College of Agriculture and Life Sciences
Department of Ecosystem Science and Management
BS in Forestry
5. Change in Curriculum

College of Agriculture and Life Sciences
Department of Ecosystem Science and Management
Minor in Forestry
6. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Entomology
Minor in Entomology
7. Texas A&M University at Galveston

New Course

**MARS 408. Estuarine and Coastal Hydrodynamics. (3-0). Credit 3.** Physical processes in estuarine and coastal environments in various time scales: turbulent, tidal and residual (subtidal); study of salts, suspended solids, nutrients and heat affected by water movement; physical, biogeochemical processes and mass transport. Prerequisites: MATH 251, PHYS 218, junior or senior classification or approval of instructor.
8. Texas A&M University at Galveston

Change in Curriculum

Texas A&M University at Galveston
Department of Marine Biology
BS in Marine Biology
9. Texas A&M University at Galveston

Change in Curriculum

**Texas A&M University at Galveston**
Department of Maritime Biology
BS in Marine Fisheries
10. Texas A&M University at Galveston

Special Consideration

Texas A&M University at Galveston
Department of Liberal Studies
Minor in Maritime Studies
Request for a new minor
11. Special Consideration

**College of Liberal Arts**
Department of Performance Studies
Minor in Performance Studies
Request for a new minor
12. Special Consideration

**College of Liberal Arts**
  Department of Performance Studies
  Minor in Music
  Minor in Theater Arts
  Request to discontinue minors
13. Change in Curriculum – from August 2015 UCC Meeting

Dwight Look College of Engineering
Department of Petroleum Engineering
BS in Petroleum Engineering
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 Agricultural Economics

3. Course prefix, number and complete title of course: AGEC 324 Agribusiness Entrepreneurship - Budgeting

4. Catalog course description (not to exceed 50 words):
Case study approach to demonstrate a process for evaluating the economic feasibility of a single-enterprise rural or metropolitan business venture; relevant production, marketing, and financing costs, in combination with capital ownership and overhead costs; computer spreadsheets including attention to deterministic sensitivity analyses; computer capabilities are essential.

5. Prerequisite(s): AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 330 or FINC 341 or FINC 408. Junior or senior classification or approval of instructor.

Cross-listed with: [Cross-listed course requires the signature of both department heads.] Stack with: [Stacked with:]

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

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

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

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

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

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

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

   An elective for BS AGEC, an elective for BS AGBU, an elective for other majors as approved by their advisor(s)

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

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

13. Prefix Course # Title (excluding punctuation)

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<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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</thead>
<tbody>
<tr>
<td>AGEC</td>
<td>324</td>
<td>AGBU Entrepreneur - Budgeting</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>Lab</th>
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<th>SCH</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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</table>

Approval recommended by:

C. Parr Rosson
Department Head or Program Chair (Type Name & Sign) Date 7/21/15

Robert Knight, Chair, College Review Committee Date

Kim Dooley, Dean of College Date 7/21/15

Tim Scott, Chair, GC or UCC Date

SUBMITTED TO COORDINATING BOARD BY:

Associate Director, Curricular Services Date

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

RECEIVED JUL 22 2015 CURRICULAR SERVICES
AGEC 324 – AGRIBUSINESS ENTREPRENEURSHIP BUDGETING

Spring 2016
Section 200 HONORS – Lecture on Monday and Wednesday, 10:20-11:10; and Labs on Monday and Wednesday, 11:30-12:20 (must attend both labs)

Section 500 – Lecture on Monday and Wednesday, 10:20-11:10; and Labs on Monday and Wednesday, 11:30-12:20 (must attend both labs)

Location TBD

COURSE CREDIT: 2-2 (two hours of lecture & two hours of lab) for 3 hours total credit

Instructor: M. Edward Rister
Office: AGLS 211B
Phone: 979-845-3801; 979-255-5211
E-Mail: e-rister@tamu.edu
Office Hours: Tuesday and Friday, during 8:30am – 11:30 by appointment [or see me before or after class to identify another mutually convenient time]

COURSE DESCRIPTION
A case study approach is used to demonstrate a process for evaluating the economic feasibility of a single-enterprise rural or metropolitan business venture. Relevant production, marketing, and financing costs, in combination with capital ownership and overhead costs, are identified. Computer spreadsheets are used extensively, including attention to deterministic sensitivity analyses. Computer capabilities are essential.

PREREQUISITES
AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 330 or FINC 341 or FINC 409; junior or senior classification; or approval of instructor.

LEARNING OUTCOMES
1. Students will be able to articulate and discuss relevant revenues and costs affecting the economic profitability of a single-enterprise rural or metropolitan business venture.
2. Students will enhance their ability to construct and utilize computer spreadsheets for economic analyses.
3. Students will recognize and understand the relevance of basic economic concepts and principles as they affect the marginal and comprehensive economic profitability of a single-enterprise rural or metropolitan business venture.
4. Students will define and distinguish the difference between economic and financial feasibility.
COURSE OBJECTIVES
The primary objectives of AGEC 324 are to introduce students to a protocol for identifying individual revenue and cost elements of a comprehensive economic assessment of a single-enterprise rural or metropolitan business venture. Specific course objectives beyond those directly associated with attaining the Learning Outcomes include:

1. Using a case study approach, students will develop an approach to identifying, collecting, and assimilating revenue and cost information for a single-enterprise rural or metropolitan business venture.
2. Students will develop competency in using computer spreadsheets to organize, analyze, and synthesize enterprise revenue and cost information.
3. Students will enhance their abilities to move from a conceptual business idea toward the first steps of assembling a systematic, economic-based analytical appraisal of the potential of that business idea.
4. Students will begin to discover their inherent interest in being an entrepreneur.

TEXTBOOK AND RESOURCE MATERIALS
No formal textbook is required. Resource materials include a description of a definitive case study of a single-enterprise rural or metropolitan business venture to be used as the focal evaluation forum during the course. In addition, a series of computer spreadsheet templates will be provided to facilitate implementation of the economic enterprise budgeting methodology.

GRADING POLICIES
Expect your grades to be assigned as follows on the basis of the points you earn during the semester (after credit for bonuses and after deductions for non-professional behavior), with no rounding up of numeric grades nor allowance for any “extra” work.

<table>
<thead>
<tr>
<th>Percentage Points Earned During the Semester</th>
<th>Associated Course Grade</th>
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</thead>
<tbody>
<tr>
<td>90 and 90+</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89.999999</td>
<td>B</td>
</tr>
<tr>
<td>70 - 79.999999</td>
<td>C</td>
</tr>
<tr>
<td>60 - 69.999999</td>
<td>D</td>
</tr>
<tr>
<td>Below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

Each student’s earned letter grade is determined on the basis of weighted points earned during the semester according to the categories and weights noted in the following discussion and remainder of this Syllabus. The instructor and TAs reserve the right to adjust/curve the overall grades at the end of the semester; that is, no individual graded item is curved during the semester. Students are guaranteed semester grades for AGEC 324 according to the above-specified structure. In the event of
an end-of-the-semester adjustment/curve, the instructors may adjust/curve a different amount of points at each grade break, depending on apparent, subjectively-determined, substantial breaks in calculated grades for the class. **As a general rule, DO NOT expect a curve nor ask for one. Also, do not request “extra work” to raise your grade; that is, do the assigned work at the level of competency that will earn you the grade you want in this class.** Also, all assignments and terms of the course are “cast in stone” – do not ask for substitution work in place of assignments you are unable to fulfill; rather, work more diligently on the remaining assignments to make up the points you lost due to not submitting/performing the missed assignment.

**Grading Criteria for HONORS Students:**
Students seeking to enroll in the AGEC 324 HONORS section are advised they need a 3.5 cumulative GPR and that GPR applies to courses taken ONLY at Texas A&M plus they must be recognized by their department’s Undergraduate Office as an Honors-qualified student. Two separate sets of grading criteria apply to Non-Honors and Honors student, with considerable overlap. In addition to the regular class work required of AGEC 324 students, the following additional work is required of Honors-enrolled students:

Only Honors students will be required to identify a single-enterprise rural or metropolitan business venture other than the one investigated as part of the case study, and then prepare a detailed inventory of relevant revenue and cost data pertaining to that enterprise which is necessary for obtaining to prepare a related comprehensive enterprise budget. The grades for these additional assignments are incorporated into the “Homework and Quizzes” category of the grading criteria.

**There are three basic categories comprising the grading structure of AGEC 324:**
1. Basic Overhead Items;
2. Homework and Quizzes; and
3. Final Exam.
The percentage of semester points (the semester total is 100%) for each category and the elements thereof for each Contract Grading Option are noted below, with two distinct criteria noted for Non-Honors and Honors students.

<table>
<thead>
<tr>
<th>Basic Overhead Items</th>
<th>Non-Honors</th>
<th>Honors</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>15%</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Class Citizenship</td>
<td>15%</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Attendance and Participation in February 2016 ACE Day</td>
<td>5%</td>
<td>5%</td>
<td>35%</td>
</tr>
<tr>
<td>Homework and Quizzes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer spreadsheet completion</td>
<td>15%</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Computer spreadsheet interpretation</td>
<td>15%</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Identify personal business enterprise project and prepare a detailed inventory of relevant revenue and cost data pertaining to that enterprise</td>
<td></td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
<td>10%</td>
<td>40%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
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</table>

In addition to the details which follow, students are advised to consult University Student Rules [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07) and [http://student-rules.tamu.edu/rule10](http://student-rules.tamu.edu/rule10) for additional information regarding Attendance and Grading.

**Basic Overhead Items.** Professionalism is a major component of AGEC 324. In that regard, each student’s daily, timely attendance, and professionalism in the classroom and instructors’ offices are major components of his/her final grade. Each unexcused absence results in a deduction of 3.333333 points from the student’s calculated final numeric grade prior to determination of the course letter grade. A total of seventeen or more unexcused absences (i.e., approximately 40% of the course) shall result in a course grade of F. Any student having seventeen or more total absences, with less than or equal to six of those absences being unexcused shall qualify for receiving an Incomplete grade, with the coursework to be completed during a subsequent semester. These grading criteria standards are imposed because students missing the stated number of classes, for whatever reason, have essentially missed a significant and substantial part of the class.

Professional Conduct & Class Citizenship (refer to **Professional Conduct Rules** on next page) includes class participation, class behavior, adhering to class “sandbox” rules (distributed on the first day of class), and other aspects of the class policies designated in this syllabus. This Syllabus identifies the Structure (expectations) of AGEC 324 professionalism, and your Conduct determines your Performance grade.

The College’s annual Fall and Spring Agricultural Career Exposition (ACE) Days ([http://aglifesciences.tamu.edu/students/aceday/](http://aglifesciences.tamu.edu/students/aceday/)) are great opportunities for networking, observing others’ “entrepreneurial” skills and qualities, AND exploring the job market. All students are expected to attend and participate in ACE Day on February 5, 11:00 a.m. - 4:00 p.m., in the MSC Bethancourt Ballroom.
Mark your calendar and make arrangements (e.g., trade work shifts – work is not an accepted reason for you not fulfilling this class requirement) to be able to do so. Substitution of another college’s career day event is not allowed for this assignment. There is an assignment for this activity for you to complete during and after your attendance. This assignment will be distributed during late January and its submission to the instructor is expected the week following the event.

Professional Conduct Rules (a.k.a. Sandbox Rules). The genesis of this section of the Course Grading Criteria originated while I (Rister) was enrolled (during 1979-1980) in a three-course accounting sequence taught by Dr. Dennis Gaffney of Michigan State University in the Business School (now the Eli Broad College of Business). Dr. Gaffney instilled in us the value of professionalism in all that we do, in and out of the classroom. He had a set of “Sandbox Rules” for our classes and it is to him I credit my classroom management style, strategy, and tactics. My classes are routinely complemented by our numerous guest “prof-for-a-day” speakers and many real-world mentors who work with the students for their professional appearance, engagement skills, and courtesy, all of which I believe are foundations for success in their post-graduation careers; anecdotally, numerous parents have noted their appreciation for these standards of excellence in my classes. The breadth of, and detail, in these Sandbox Rules have evolved during my time in the classroom at Texas A&M University (since June 1981). Drawing on a presentation by Dr. Jeff Conant, professor of marketing in Mays Business School, and Dr. David Reed, Associate Dean in the College of Agriculture and Life Sciences, both here at Texas A&M University, I recognize the challenges of engaging millennial students. Substantial specificity must be presented in terms of my expectations of students, rather than my simply assuming a one-time discussion of such items will accomplish my objectives. As noted by Dr. Conant, the course syllabi is the contract between the students and the instructor. Thus, it is essential that this syllabus be comprehensive in regards to the details of course grading criteria. With regards to professionalism in the classroom, I am a firm believer in the “Structure, Conduct, and Performance” paradigm. These “Sandbox Rules” represent the Structure of desired Conduct in AGEC 324. Knowing this information, it is expected students’ Performance will not only meet but surpass these standards. As incentives for doing so, a substantial component of AGEC 324 grading criteria is associated with students’ attainment of these behavioral standards. Be professional, Aggies!

In terms of implementing these Sandbox Rules, just as instructors are required to post the course syllabi prior to the beginning of class and review that syllabi with students during the first day of class, it is my expectation that students will read the syllabus. The first day of class is a “day of grace,” with no grade deductions registered for transgressions/violations prior to the Sandbox Rules having been explicitly identified, the underlying rationale of the expectations explained, and the value/cost of meeting the noted standards identified. To the latter point, the 15% grade accorded the Professional Conduct & Class Citizenship category is affected by a 1% point deduction off of the overall semester numeric grade for each noted violation of the Sandbox Rules up to a total possible loss of 12%, with the remaining 3% of the category’s grade subjectively determined by a composite evaluation of the instructor (50% of the grade) and the three student assistants (in the aggregate, they determine the remaining 50% of the 3%). In reference to the subjective grading aspect of the category, the instructors’ focus is on students’ personal interactions with them in and out of the
classroom and any guest speakers and mentors who join us in the classroom and for evening dinner meetings.

Think of and approach coming to class as if you were going to a daily management meeting. As such, we will follow a set of rules and business etiquette that is similar to what you will encounter in the professional world, including these **AGEC 324 “Sandbox Rules. There are no exceptions to these rules. No additional rules will be added during the semester.**

- ✓ Adhere to the Aggie Honor Code at all times;
- ✓ No food or drink (including alcohol and water) in lecture or lab or at help sessions or in lab during non-class hours;
- ✓ No tobacco products in lecture or lab or at help sessions;
- ✓ No cellular telephones, beepers, iPods, iPads, computer laptops (including during the presence of a guest “Prof-for-a-Day” in our class), or other electronic devices are to be used during lecture, lab, or at help sessions (this means no texting, voice mail, outgoing calls, answering calls, ringing of your telephone, etc.);
- ✓ No pets (e.g., dogs, cats, snakes, mice, birds, etc.) in lecture or lab or at help sessions (see instructors for exceptions for guide dogs & other companion aid animals);
- ✓ No reading of The Battalion or other non-class materials during class time;
- ✓ Programmable calculators MAY NOT BE USED during exams (in fact, use of calculators in AGEC 324 is discouraged at all times – use Excel!);
- ✓ HATS, CAPS, AND OTHER HEAD COVERS OFF (APPLIES TO BOTH MEN AND WOMEN) DURING LECTURE, LAB, HELP SESSIONS, in instructors’ offices, and in the TAs’ offices – NOTE: exceptions will be made for religious beliefs situations;
- ✓ SUNGLASSES OFF (totally – do not prop on top of your head; same for regular glasses when not being used for reading) (APPLIES TO BOTH MEN AND WOMEN) DURING LECTURE, LAB, HELP SESSIONS, and in instructors’ offices, and in the TAs’ offices;
- ✓ NO INSTANT MESSAGING (or Text or Twittering or FaceBook, etc.), E-MAILING, OR INTERNET ACTIVITY OF ANY KIND BESIDE AGE 324 CLASSWORK IS ALLOWED DURING CLASS TIME;
- ✓ DO NOT use a computer or any other electronic device during the presence of a guest “Prof-for-a-Day” in our class;
- ✓ DO NOT use the computer or any other electronic device while the instructors are lecturing, unless explicitly told to do so – take handwritten notes instead;
- ✓ Call or e-mail in advance of missing a class or lab (not a requirement, but this is the instructors’ preference – your professionalism will be rewarded);
- ✓ Adhere to all announced and posted Microcomputer Lab procedures during lab and help sessions;
- ✓ Clean up and remove your “trash” as you leave lecture; better yet, pick up others’ “trash” and also remove it from the classroom as you leave the room. Set an example for others and leave the classrooms in as good, or better, appearance than when we arrived (as posted in several Rudy’s BBQ restaurants located throughout Texas, “Your mother is not here. Please clean up your own mess”); and
- ✓ Bottomline, be professional and courteous to all. Remember why you and your classmates are here – to learn, to network, and to prepare for the future.
Homework and Quizzes. Students are expected to attend class regularly and construct a comprehensive enterprise budget analysis for the case study enterprise. Timely completion of the instructor-provided computer spreadsheet templates will be required. Submission of capsulated written summaries of the contents and implications of each completed spreadsheet will also be required, and graded according to content (50%), grammar (30%), and spelling (20%). No late submissions are accepted with respect to either completion of the templates or capsulated summaries; in the case of excused absences, those assignments are disregarded during grade calculations and for unexcused absences, grades of zero are assigned. Random quizzes regarding the course lectures and lab assignments will be administered.

Makeup Policy. No late submissions are accepted – for unexcused absences, grades of zero are assigned. In the case of documented excused absences, students are allowed to choose one of the following two options on the first day they return to class (at which time they are expected to present their documentation identifying the absence(s) as excused):

a. An alternative assignment will be made to the student and is expected to be submitted within one month prior to or at the final exam period, whichever date comes first; or

b. The student may show up in a classroom at 7:00 a.m. on the next Friday (i.e., this is the announced date and time of a weekly scheduled makeup period for all of the instructor’s classes) at a location to be determined given the instructor’s 8:00 a.m. teaching responsibilities and take a quiz related to material covered in class during the student’s absence, with the instructor’s expectation being that the student will have talked with classmates to assimilate and learn the material missed during his/her absence.

Difference choices among these two options may be made by the student for each excused absence.

Final Exam. The Final Exam is scheduled for May TBD, 2016, exact time TBD. (mark your calendar!). The focus of the final exam is on the protocol for assembling and interpreting a comprehensive economic enterprise budget for a single-enterprise rural or metropolitan business venture, with the students expected to be able to understand and interpret the various topics identified and emphasized during the semester.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu. If you have any question in regards to this issue, please speak to me early in the semester – do not hesitate to contact me – do NOT wait until the time of or after the first grade of the semester – contact me well before that time.
# COURSE TOPICS, CALENDARS OF ACTIVITIES, AND MAJOR ASSIGNMENT DATES

Major dates of importance to place on your calendar at the beginning of the semester include those identified in the following table. *NOTE: In the table below, s/s refers to Excel spreadsheet.*

<table>
<thead>
<tr>
<th>Dates</th>
<th>Week Nbr</th>
<th>Monday Lecture</th>
<th>Monday Lab</th>
<th>Wednesday Lecture</th>
<th>Wednesday Lab</th>
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<tbody>
<tr>
<td>Jan 18-20</td>
<td>1</td>
<td>TAMU HOLIDAY</td>
<td>TAMU HOLIDAY</td>
<td>Course Semantics</td>
<td>Course Semantics</td>
</tr>
<tr>
<td>Jan 25-27</td>
<td>2</td>
<td>Capital Asset, Inventory, and</td>
<td>CapAst1 s/s</td>
<td>Long- and Short-Run Economic Decision-</td>
<td>CapAst1 s/s</td>
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<tr>
<td></td>
<td></td>
<td>Contingency Requirements</td>
<td></td>
<td>Making Rules</td>
<td></td>
</tr>
<tr>
<td>Feb 1-3</td>
<td>3</td>
<td>Capital Asset, Inventory, and</td>
<td>OutSource &amp; Lease</td>
<td>Economies of Size</td>
<td>CapAst2 s/s</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contingency Requirements</td>
<td>s/s</td>
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<tr>
<td>Feb 8-10</td>
<td>4</td>
<td>Sources of Investment Capital</td>
<td>CapAst3 s/s</td>
<td>Production Function and Optimal levels of</td>
<td>Equity s/s</td>
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<td></td>
<td>a Single Variable Input</td>
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<tr>
<td>Feb 15-17</td>
<td>5</td>
<td>Tradeoffs Between Investment and</td>
<td>Equity s/s</td>
<td>Financing of a Capital Loan</td>
<td>Amortiz s/s</td>
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<tr>
<td></td>
<td></td>
<td>Financed Capital</td>
<td></td>
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<tr>
<td>Feb 22-24</td>
<td>6</td>
<td>Credit Worthiness</td>
<td>BalSht s/s</td>
<td>Variable, Fixed, Total, and Marginal</td>
<td>Equity, Amortiz, &amp; BalSht</td>
</tr>
<tr>
<td>Feb 29-</td>
<td></td>
<td></td>
<td></td>
<td>Costs</td>
<td></td>
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<tr>
<td>Mar 1</td>
<td></td>
<td>Insurance &amp; Family Living</td>
<td>Insure s/s</td>
<td>Insurance &amp; Family Living</td>
<td>FamBud s/s</td>
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<tr>
<td>Mar 7-9</td>
<td>8</td>
<td>Capital Asset Ownership Costs</td>
<td>AloCat s/s</td>
<td>Capital Asset Ownership Costs</td>
<td>AloCat s/s</td>
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<td>Mar 14-16</td>
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<tr>
<td>Mar 21-23</td>
<td>9</td>
<td>Overhead Costs</td>
<td>OvrHed s/s</td>
<td>Cash and Non-Cash Expenses</td>
<td>OvrHed s/s</td>
</tr>
<tr>
<td>Mar 28-30</td>
<td>10</td>
<td>Comprehensive Costs, Constant</td>
<td>EntBud s/s</td>
<td>Input Substitution – Least Cost Combination of Inputs</td>
<td>EntBud s/s</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Varying Costs</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Apr 4-6</td>
<td>11</td>
<td>Comprehensive Costs, Constant</td>
<td>EntBud s/s</td>
<td>Enterprise Combinations – Maximizing</td>
<td>EntBud s/s</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Varying Costs</td>
<td></td>
<td>Profits for a Set of Fixed Resources</td>
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<tr>
<td>Apr 11-13</td>
<td>12</td>
<td>Sensitivity Analyses – Breakeven</td>
<td>EntBud s/s</td>
<td>Long- and Short-Run Economic Decision-</td>
<td>EntBud s/s</td>
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<td></td>
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<td></td>
<td>Making Rules</td>
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<tr>
<td>Apr 18-20</td>
<td>13</td>
<td>Sensitivity Analyses – Data Tables</td>
<td>EntBud s/s</td>
<td></td>
<td>EntBud s/s</td>
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<tr>
<td>Apr 25-27</td>
<td>14</td>
<td>Sensitivity Analyses – Scenarios</td>
<td>EntBud s/s</td>
<td></td>
<td>EntBud s/s</td>
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<tr>
<td>May 1</td>
<td>15</td>
<td>Review of the Enterprise Evaluation Process</td>
<td>Q&amp;A</td>
<td>Reading Day, No Classes</td>
<td>Reading Day, No Classes</td>
</tr>
<tr>
<td>Max 5-11</td>
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</tr>
</tbody>
</table>

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**FINAL EXAM, exact date and time TBD**
ACADEMIC INTEGRITY

Scholastic Honesty. A note on cheating -- **it is not tolerated!** If you are caught in the act, you will automatically receive a zero on the work in question. Your instructor will then proceed in completing the Honor Code Violation Report form and report you, through the Department of Agricultural Economics Undergraduate Office and Department Head, to the Aggie Honor System Office.

For many years Aggies have followed a Code of Honor, which is stated in this very simple statement:

_____An Aggie does not lie, cheat or steal, or tolerate those who do._____

The Aggie Code of Honor is an effort to unify the aims of all Texas A&M men and women toward a high code of ethics and personal dignity. For most, living under this code will be no problem, as it asks nothing of a person that is beyond reason. It only calls for honesty and integrity, characteristics that Aggies have always exemplified.

The Aggie Code of Honor functions as a symbol to all Aggies, promoting understanding and loyalty to truth and confidence in each other.

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

On all AGEC 324 course work, assignments, and examinations at Texas A&M University, unless otherwise specified at the time of the assignment/exam, the following Honor Pledge will be preprinted, to be completed and signed by the student:

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

_________________________  __________________________
Student’s Signature  Date

_________________________  __________________________
Student’s Printed Name  UIN

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
MISCELLANEOUS

If you have any questions, give me a call. Call me in this order: C:979.255.5211 or O:979.845.3801 or H:979.690.0180. Please call between 6:30 a.m. and 7:30 p.m.; be sure and leave a message and your name if I do not answer.

Also, be sure and include AGEC 324 and your name in the subject line of all e-mails you send me. Be sure and flag your e-mail with the word QUESTION in the subject line when you are needing a response – otherwise, it may get lost in the shuffle for a few days.

Come to class the first week prepared to take notes (i.e., bring some paper and one or more pens and pencils). Taking notes and reviewing those notes with your classmates are strongly encouraged. As a general rule, most information presented is not repeated.

Congratulations on being in our class! Your TAs and I are looking forward to a great semester and year. Thanks.

Gig ‘em,

Ed Rister ‘74
Professor, and Associate Head
The M. Edward Rister ’74 Chair in Rural Entrepreneurship,
Dept. of Agricultural Economics
Texas A&M University
2124 TAMUS (this line is required on all correspondence)
College Station, TX 77843-2124
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, UAVM)
2. Request submitted by (Department or Program Name):
   Department of Animal Science
3. Course prefix, number and complete title of course:
   ANSC 211  Equine Industry and Career Preparation
4. Catalog course description (not to exceed 50 words):
   Identify opportunities and skill sets required to pursue a career in the equine industry; development of resume, communication, professional etiquette and interview skills.

5. Prerequisite(s):
   None
6. Cross-listed with:
   NA
7. Stacked with:
   NA

5-6. Cross-listed courses require the signature of both department heads.

6. Is this a variable credit course?
   ☑ No
   If yes, from _____ to _____
7. Is this a repeatable course?
   ☑ No
   If yes, this course may be taken _____ times.
   Will this course be repeated within the same semester?
   ☑ No
8. Will this course be submitted to the Core Curriculum Council?
   ☑ Yes  ☑ No
9. How will this course be graded?
   ☑ Grade  ☑ S/U  ☑ P/F (CLMD)
10. This course will be:
    a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
       Equine Science Certificate
    b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
       B.S. in any major
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)
    ANSC  211  Equine Ind & Career Prep

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

Approval recommended by:
H. Russell Cross
David W. Forrest
Department Head or Program Chair (Type Name & Sign)  Date
Robert Knight
Chair, College Review Committee  Date
Mark Hussey
Dean of College  Date

Department Head or Program Chair (Type Name & Sign)  Date
Submitted to Coordinating Board by:
Associate Director, Curricular Services  Date
Chair, GC or UCC  Date

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

Effective Date: AUG 18 2015
CURRICULAR SERVICES
Course title and number: ANSC 211 – Equine Industry Career Preparation
Term: Spring 20XX
Meeting times and location: MW 12:40-1:30pm, HFSB 105
Credit Hours: 2 (Lecture)

Course Description and Prerequisites

This course provides an in-depth look into the career opportunities in the equine industry and the skill sets necessary to obtain and maintain a successful career. Topics include resume building, cover letter writing, interview skills, professional etiquette and communication and skill and interest identification. Guest lectures by industry professionals who represent valid employment opportunities in the equine industry will provide further insight into possible career paths.

Prerequisites: None

Learning Outcomes or Course Objectives

Upon completion of this course, students will have identified multiple potential career paths and will have developed a path of goals to reach said careers. Students will have the ability to draft high-quality resumes and cover letters, and will be able to conduct themselves with confidence in an interview setting. Students will have a clear understanding of professional communication and etiquette, and will have the knowledge and skills to present and conduct themselves as professional members/participants in the equine industry.

Instructor Information

Name: Anna Morrison, MA (lead instructor); Jim Heird, PhD (associate instructor)
Telephone number: 979-845-6098
Email address: annamorrison@tamu.edu
Office hours: M 9:00-10:00, T 2:00-4:00, and W 3:00-5:00
Office location: Hildebrand Equine Complex

Textbook and/or Resource Material

Class Handouts

Grading Policies

Late work will be marked down by the following scale: 1 day late – 10%; 2 days late – 20%; 3 days late – 30%; 4-7 days late – maximum of 20% of the value of the assignment will be awarded; more than 7 days late – no points will be awarded. If an assignment is due in class, it is considered late if not received by the end of the class session except in the case of University excused absence. If an assignment is due online or via email, it is considered late if not received by 11:59 pm on the due date.

Lecture and assignments and quizzes will comprise 100% of the final grade.

Grading Scale:

Minus grades will not be used.

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = <60
## Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignments Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Equine Industry Careers Overview</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Equine Industry Careers Overview</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Success In the Equine Industry (Jim Heird)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Success In the Equine Industry (Jim Heird)</td>
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<tr>
<td>3</td>
<td>Skill Set &amp; Interest Identification</td>
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<tr>
<td>3</td>
<td>Skill Set &amp; Interest Identification</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Resume Building</td>
<td>Roadmap to Success Due (10 pts) – Multi-year plan for activities to pursue during undergraduate education to achieve “dream” résumé upon graduation</td>
</tr>
<tr>
<td>5</td>
<td>Cover Letter Writing</td>
<td>Resume Due (15 pts) – Complete current and “dream” résumés</td>
</tr>
<tr>
<td>5</td>
<td>Cover Letter Writing</td>
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<tr>
<td>6</td>
<td>Interview Skills</td>
<td>Cover Letter Due (15 pts) – Complete cover letter geared toward a specific existing job opening</td>
</tr>
<tr>
<td>6</td>
<td>Interview Skills</td>
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<tr>
<td>7</td>
<td>Professional Communication &amp; Etiquette</td>
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<tr>
<td>7</td>
<td>Professional Communication &amp; Etiquette</td>
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<tr>
<td>8</td>
<td>Internships</td>
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<td>8</td>
<td>Internships</td>
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</tr>
<tr>
<td>9</td>
<td>Mock Interviews</td>
<td>Internship Report Due (10 pts) – Complete a report about an available equine industry internship</td>
</tr>
<tr>
<td>9</td>
<td>Mock Interviews</td>
<td></td>
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<tr>
<td>10</td>
<td>Mock Interviews</td>
<td>Mock Interview (20 pts) – Complete a mock interview with equine faculty or industry professionals (specific individuals TBD)</td>
</tr>
<tr>
<td>10</td>
<td>Mock Interviews</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Industry Panel</td>
<td>Panel Report 1 Due (10 pts) – Complete report on the panelists from week 11</td>
</tr>
<tr>
<td>11</td>
<td>Industry Panel</td>
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<tr>
<td>12</td>
<td>Industry Panel</td>
<td>Panel Report 2 Due (10 pts) – Complete report on the panelists from week 12</td>
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<tr>
<td>12</td>
<td>Industry Panel</td>
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<tr>
<td>13</td>
<td>Industry Panel</td>
<td>Panel Report 3 Due (10 pts) – Complete report on the panelists from week 13</td>
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<tr>
<td>13</td>
<td>Industry Panel</td>
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<tr>
<td>14</td>
<td>Discussion</td>
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<td>14</td>
<td>Discussion</td>
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<tr>
<td>15</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>
Other Pertinent Course Information

Some course information will be distributed through email or eLearning.

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

Academic Integrity

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

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
Attendance Policy and Grading Scale Examples

**Attendance Policy:**

Attendance will be taken at lecture and laboratory meetings. If planning to miss lecture or laboratory sessions, students are encouraged to contact the instructor prior to the absence. Unexcused absence from more than two sessions will result in the lowering of the student’s final course grade by one letter grade per session missed. Unexcused absence from 6 or more sessions will result in a grade of “F” for the course.

“The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)."
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 Anthropology
3. Course prefix, number and complete title of course: ANTH 436 - Ancient Egypt
4. Catalog course description (not to exceed 50 words):
The archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period.

5. Prerequisite(s): Junior or Senior classification or approval of instructor
   Cross-listed with: RELS 436
   Stacked with:
   (Cross-listed courses require the signature of both department heads.)

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

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

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

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

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

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

   BA ANTH, ANTH Minor, RELS Minor, and general academic

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

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

13. Prefix  Course #  Title (excluding punctuation)

   ANTH  436  Ancient Egypt

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   3.00  0.00  0.00  3.00  4503010001  0280  16 - 17  0  0  3  6  3  2

   Approval recommended by:  Level 4
   Ted Goebel  8/3/15

   Department Head of Program Chair (Type Name & Sign)  Date
   Donnalee Dow  8/12/15

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

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
ANCIENT EGYPT
ANTH/RELS 436
SYLLABUS

SPRING <<YEAR>> (Tuesdays and Thursdays 11:10 AM-12:25 PM)

Anthropology Building, Room 237

Shelley Wachsmann, Ph.D.
Meadows Professor of Biblical Archaeology
Nautical Archaeology Program, Department of Anthropology, Texas A&M University

Office hours: Wednesdays 3:00-5:00 PM, or by appointment at the
Nautical Archaeology Program, Anthropology Department, Room 121.
Telephone (979) 847-9257; E-mail: swachsmann@tamu.edu

Teaching Assistant: _____________. Email: __________________

The archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period.

LEARNING OUTCOMES
Students will:
A) Articulate the rich matrix of Egyptian history and material culture
B) Appraise how these physical remains fit into an overall humanistic understanding of the Egyptian world and how they influence modernity
C) Interpret archaeological discoveries
D) Identify the interrelationship of various sources—texts, artifacts, iconography, etc.—so as to be capable of interpreting and understanding the past

GRADING POLICIES
We will cover the period from earliest human settlement to the end of the New Kingdom period. Classes will be devoted primarily to Keynote™ lectures. We will also see two video presentations. The final grade will be based on the total grades earned by the student from, three tests (two mid-term examinations and a final examination, each worth 25 points) and a 10-page term paper (25 points) due the last day of class (<<DAY>>, <<DATE>>).

As term paper topic selection can be a difficult process, and lead to procrastination, I encourage you to look over the material that we will cover and select a topic for your
term paper early in the semester. Please see me to discuss your topic ideas. You should submit a 250-word (1-page double spaced) abstract together with a preliminary bibliography on our tenth meeting (<<DAY>>, <<DATE>>). Remember, deadlines are our friends.

The second mid-term, and the final test, will include only material covered since the previous test. The class session prior to each test will be spent in reviewing and discussing the material covered in the test.

Letter grades assigned will follow the standard TAMU scale: 100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, 59 and below = F. Sometimes students do not do well on a midterm. Should this happen the student will have the option to take a final exam covering all the material of the entire semester. This test will count for the final and will replace the lower of the two mid-term test grades (50 point value). Anyone wishing to take this option must register to do so no later than our last meeting (<<DAY>>, <<DATE>>). Note that this possibility should be viewed as an opportunity of last resort.

This course does not have a required attendance policy and I will not be taking attendance. Note, however, that we will be covering a great deal of material in each meeting and missing any class is likely to impact your grade because it will be difficult for you to keep up with the material. Note that I accept each student into this course as a responsible adult: the first rule of responsible adulthood is taking full responsibility for your own actions. For more details on Texas A&M University’s view on attendance, see (http://student-rules.tamu.edu/rule07).

LATE WORK
Late work will be accepted only on the basis of Student Rule 7. Please visit http://student-rules.tamu.edu/rule07 for information concerning university-excused absences.

TEXTS

THE AMERICANS WITH DISABILITIES ACT (ADA)
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Disability Services in Room B118, Cain Hall. Tel. 845-1637. Website: (http://disability.tamu.edu/).
STATEMENT ON DIVERSITY
Respect for cultural and human biological diversity are core concepts of Anthropology. In this course, each voice in the classroom has something of value to contribute to class discussion. Please respect the different experiences, beliefs and values expressed by your fellow students and instructor, and refrain from derogatory comments about other individuals, cultures, groups, or viewpoints. The Anthropology Department supports the Texas A&M University commitment to Diversity, and welcomes individuals of all ages, backgrounds, citizenships, disabilities, education, ethnicities, family statuses, genders, gender identities, geographical locations, languages, military experience, political views, races, religions, sexual orientations, socioeconomic statuses, and work experiences (See http://diversity.tamu.edu/).

ACADEMIC INTEGRITY
An Aggie does not lie, cheat or steal, or tolerate those who do. For more information regarding academic integrity, please visit the Honor Council Rules and Procedures on the web: http://aggiehonor.tamu.edu.

SCHEDULE SPRING 2013

Week 1
(1) Tuesday ➤ Introduction I
(2) Thursday ➤ Introduction II

Week 2
(3) Tuesday ➤ Video Presentation: Napoleon’s Obsession: Quest for Egypt
(4) Thursday ➤ The Environmental Background I
Reading: (Environmental Background I-IV): Bard, *An Introduction to the Archaeology of Ancient Egypt*: 45-65.

Week 3
(5) Tuesday ➤ The Environmental Background II
(6) Thursday ➤ The Environmental Background III

Week 4
(7) Tuesday ➤ The Environmental Background IV
(8) Thursday ➤ Prehistoric Egypt
Week 5
(9) Tuesday ➢ Predynastic Egypt
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 104-120.

(10) Thursday ➢ On Writing Reports and Term Papers (250-Word Term Paper Abstracts Due)

Week 6
(11) Tuesday ➢ Mid-term examination #1 (25 points)
(12) Thursday ➢ Understanding Hieroglyphs

Week 7
(13) Tuesday ➢ The Old Kingdom (Ist-VIth Dynasties)

(14) Thursday ➢ How to Build a Pyramid

Week 8
(15) Tuesday ➢ Sneferu

(16) Thursday ➢ Video Presentation: Mummy Tech

Week 9
(17) Tuesday ➢ Khufu to the End of the Old Kingdom
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 137-152; Clayton, *Chronicle of the Pharaohs*: 45-67

(18) Thursday ➢ First Intermediate Period (VIIth-Xth Dynasties)

Week 10
(19) Tuesday ➢ The Middle Kingdom (XIth-XIIth Dynasties)

(20) Thursday ➢ The Second Intermediate Period (XIIIth-XVIIth Dynasties)

Week 11
(21) Tuesday ➢ Mid-term examination #2 (25 points)
(22) Thursday ➢ The New Kingdom

**Week 12**
(23) Tuesday ➤ Hatshepsut

(24) Thursday ➤ Thutmose III-Amenhotep III

**Week 13**
(25) Tuesday ➤ The Amarna Period to the End of the XVIIIth Dynasty
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 221-235; Clayton, *Chronicle of the Pharaohs*: 120-139.

(26) Thursday ➤ The XIXth Dynasty

**Week 14**
(27) Tuesday ➤ The XXth Dynasty: Invasion & Decline

(28) Thursday, ➤ Summary & Overview

Final examination: <<DAY>><<DATE>><<MONTH>><<TIME>> (25 points)

∞∞∞∞

For more about Egypt, see…

- American Research Center in Egypt (ARCE) (http://www.arce.org)
  (North Texas Chapter: P.O. Box 38642, Dallas , TX 57238)

- Egypt Exploration Society (EES) (http://www.ees.ac.uk)


- Oriental Institute, University of Chicago (http://oi.uchicago.edu)
  Pdf files of many publications on Egyptology available for free download at (http://oi.uchicago.edu/research/pubs/catalog/egypt.html)

- The Metropolitan Museum of Art, Egyptian Collection
  (http://www.metmuseum.org/collections/search-the-collections?ft=Egyptian)
• Petrie Museum of Egyptian Archaeology
  (http://www.ucl.ac.uk/museums/petrie)

• The British Museum, Online Collection
  (http://www.britishmuseum.org/research/collection_online/search.aspx)

And for your general interest…

THE ANCIENT WORLD ON TELEVISION
AWOTV on the www:
http://www.atrium-media.com/rogueclassicism/categories/awotv/
To subscribe, send a blank message to:
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To unsubscribe, send a blank message to:
mailto:awotv-unsubscribe@yahoogroups.com

EXPLORATOR: ARCHAEOLOGICAL NEWS ON THE WEB
Read the latest Explorator on the web at:
http://www.atrium-media.com/rogueclassicism/categories/explorator
Past issues of Explorator are available on the web at:
http://groups.yahoo.com/group/Explorator/messages
To subscribe to Explorator, send a blank email message to:
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To unsubscribe, send a blank email message to:
mailto:Explorator-unsubscribe@yahoogroups.com
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

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

2. Request submitted by (Department or Program Name):  
   Entomology
   ENTO 321 Beekeeping

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

4. Catalog course description (not to exceed 50 words):
   Learn basic knowledge and techniques used in apiculture; tools and knowledge needed to keep bees responsibly and productively.

5. Prerequisite(s):
   ENTO 320 or concurrent enrollment, Undergraduate classification or approval of instructor

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

7. Is this a repeatable course?  
   - Yes  
   - No

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

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

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

BS-ENTO

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

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

Prefix: Course #  Title (excluding punctuation)

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>ECH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acud. Year</th>
<th>Title</th>
</tr>
</thead>
<tbody>
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<td>3.00</td>
<td>0.00</td>
<td>1.00</td>
<td>2607020002</td>
<td>1050</td>
<td>16 - 17</td>
<td>Beekeeping</td>
</tr>
</tbody>
</table>

Approval recommended by:

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

Robert Knight  
Chair, College Review Committee  Date

Kim Dooley  
Dean of College  Date

Tim Scott  
Chair, GC or UCC  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
Course overview, learning outcomes, expectations, and assignments

Tuesdays, 2:20pm - 5:10pm
Heap Center Room 210, and Honey Bee Facility at TAMU’s Riverside Campus
1 credit: laboratory for juniors or seniors
Pre-requisites: ENTO 320 or concurrent enrollment, U3/U4 classification or instructor's approval

Instructor Information
Dr. Juliana Rangel-Posada
E-mail: jrangel@tamu.edu
Phone: [979] 845-1074

Required Textbook
"Honey Bee Biology and Beekeeping" by Dewey M. Caron with
Lawrence J. Connor (2013) Wicwas Press, MI

Office Hours
By appointment. I will reply to e-mails and calls within 48 hours

Notebook Requirement
A laboratory notebook is required

Course Overview
Welcome to TAMU’s introductory course on beekeeping!! ENTO 321 will enable you to learn the basic knowledge toolbox and techniques used in apiculture today. Like you, many people are interested in keeping bees as a hobby or even as an extra source of income. This course will introduce you to the basic tools and knowledge needed to keep bees responsibly and productively. Use this syllabus as a resource to consult course content, expectations, assignments, learning objectives, calendar, and university procedural policies. As an enrolled student in this course, you are expected to read this syllabus carefully and agree to the conduct herein expected of you.

learning Outcomes
Upon completion of ENTO 321, a student will be able to:

- Identify and treat honey bee pests and diseases in the field
- Describe the importance of honey bee pollination services
- Rear queens, control swarming, and measure productivity
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic / Assignment / Project (L = lecture)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T, 19 Jan</td>
<td>L1: Course introduction. Laboratory and personal safety.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 1</td>
</tr>
<tr>
<td>2</td>
<td>M, 25 Jan</td>
<td>Last day to add/drop a course</td>
</tr>
<tr>
<td>2</td>
<td>T, 26 Jan</td>
<td>L2: Honey bee taxonomy and identification, what's a bee?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapters 2 and 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group Project 1, taxonomic groups (50 pts)</td>
</tr>
<tr>
<td>3</td>
<td>T, 2 Feb</td>
<td>L3: Honey bee anatomy and physiology: Dissections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Individual Assignment 1, dissections (50 pts)</td>
</tr>
<tr>
<td>4</td>
<td>T, 9 Feb</td>
<td>L4: Superorganism structures: Colonies and nests/hive types</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapters 3 and 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group Project 2, Presentations on bees and non-bees, (50 pts)</td>
</tr>
<tr>
<td>5</td>
<td>T, 16 Feb</td>
<td>L5: Colony management: When and how to get started?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L6: Fall/winter in the hive: Preparing colonies to overwinter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 13</td>
</tr>
<tr>
<td>6</td>
<td>T, 23 Feb</td>
<td>Exam 1 covers Lectures/practicals 1 - 6 and all readings</td>
</tr>
<tr>
<td>7</td>
<td>T, 1 Mar</td>
<td>L7: Spring management: Packages, inspections, feeding, splitting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 14</td>
</tr>
<tr>
<td>8</td>
<td>T, 8 Mar</td>
<td>L8 Hive components, assembly, and personal equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Individual Assignment 2 due, Outfitting an apiary (50 pts)</td>
</tr>
<tr>
<td>9</td>
<td>T, 15 Mar</td>
<td>Spring Break, no class</td>
</tr>
<tr>
<td>10</td>
<td>T, 22 Mar</td>
<td>L9: Honey bee pathogens, diseases, and colony problems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapters 19 and 20</td>
</tr>
<tr>
<td>11</td>
<td>S, 26 Mar</td>
<td>Extra credit opportunity: Central Texas Beekeepers Bee School</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Brenham Fairgrounds, all day event</td>
</tr>
<tr>
<td>12</td>
<td>T, 5 Apr</td>
<td>L10: Non-honey products from the hive - demonstrations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group Project 3 (50 pts): Hands on practice to make products</td>
</tr>
<tr>
<td>13</td>
<td>T, 12 Apr</td>
<td>Exam 2 covers Lectures/practicals 7 - 10 and all readings</td>
</tr>
<tr>
<td></td>
<td>T, 19 Apr</td>
<td>L11: Colony defensiveness, AHBs, TX honey bee regulatory laws</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L12: Real colony inspection, IPM. Check colony growth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Invited speaker(s)</td>
</tr>
<tr>
<td>14</td>
<td>T, 19 Apr</td>
<td>L13: Mating, Swarming, queen rearing, splitting, re-queening</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapters 9 and 17</td>
</tr>
<tr>
<td>15</td>
<td>T, 26 Apr</td>
<td>L14: Honey bee pollination services, bee plants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Chapter 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L15: Honey extraction, tasting and evaluation of quality</td>
</tr>
<tr>
<td>16</td>
<td>T, 5 May</td>
<td>Reading week, no class</td>
</tr>
<tr>
<td>17</td>
<td>T, 10 May</td>
<td>Exam 3 covers Lectures/practicals 11 - 15 and all readings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Exam 3 will be given during finals schedule, 1-3p, Heep 210</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Colony growth individual reports due (50 pts)</td>
</tr>
</tbody>
</table>

This is a fluid schedule of the semester. Sometimes we will be at Heep, sometimes at Riverside but just in the classroom, and other times we will be outside with bees. You will be notified in advance regarding the location or any changes to the schedule.

To succeed in class...

- Read the syllabus
- Come to all lectures/ labs
- Participate actively in group projects
- Keep your lab notebook up to date
- Turn in individual assignments on time
- Communicate with me regarding planned absences
- Be honest with me and with your assignments
- Have fun while learning about beekeeping!
Understanding the Point Breakdown and Grading

<table>
<thead>
<tr>
<th>Course Assessment Material</th>
<th>Number of Assessments</th>
<th>Individual Point Value</th>
<th>Total point Value</th>
<th>% of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Assignments</td>
<td>2</td>
<td>25</td>
<td>50</td>
<td>5</td>
</tr>
<tr>
<td>Group assignments</td>
<td>3</td>
<td>50</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td>Midterm exams</td>
<td>3</td>
<td>200</td>
<td>600</td>
<td>60</td>
</tr>
<tr>
<td>Individual colony growth report</td>
<td>1</td>
<td>50</td>
<td>50</td>
<td>5</td>
</tr>
<tr>
<td>Weekly class attendance/participation</td>
<td>15</td>
<td>10</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td>Extra credit</td>
<td>1</td>
<td>50</td>
<td>50</td>
<td>5</td>
</tr>
</tbody>
</table>

Maximum Total Points Available: 1050
Minimum Total Points Needed to Get an A: 900

Major Assignments

**Individual Assignments.** There will be a total of 2 individual assignments that will be required either at the end of a class period, or the next class period. You will be notified of when the assignment is due. Each assignment is worth 25 points. The assignments will assess your understanding of the material covered in class and will give you a chance to think critically.

**Group Projects.** There will be a total of 3 group projects that will be conducted during the class period. You will be required to keep a "laboratory" notebook that you will use to write down notes, procedures, methods, results, analyses, etc. Each group project is worth 50 points. Class participation is essential to get full credit.

**Individual Colony Growth Report.** Each student will be required to turn in a final report for the colony growth project carried out in groups during class. The report will require introduction, methods, results, discussion, and references sections, and must cite at least two scientific papers. The report is due on Tuesday, 10 May and is worth 50 points.

**Class attendance/participation.** You will get up to 10 points each week that you attend class and actively participate by answering oral questions about the day’s topics, for a total max. of 150 points.

**Midterm Exams.** There will be a total of 3 midterm exams which will each cover approximately a third of the course material and are non-cumulative. Each exam have a total value of 200 points. Midterms can only be taken once and are required to pass the course. Question types will be multiple choice, multiple answer, matching, ordering, fill-in-the-blank, picture ID, jumbled sentence, open-ended critical thinking, and similar questions.

**Note:** There will be no cumulative final exam in this course. Instead, Exam 3 will be given during the scheduled final exam period for this course, which will be Tuesday 10 May 2016, 1-3pm, in Heep 210.

This course offers 1,050 of total possible points, which include 50 extra credit points. All assignments are required and are not optional. You can get up to 10 points for every class you attend and participate in. You will need at least 900 points to earn an A.
Software
You need to have access to computers and be able to view PDF files, create edit, or save MS Word, Excel and Power Point files. You must have access to the internet, and should be able to upload, view and edit video and audio files.

Attendance Policies
The university’s attendance policy states that class attendance is the responsibility of individual students. I will expect you to attend every lecture, as attendance is essential to complete the course successfully. Examine the course calendar to schedule any planned absences. TAMU’s rules for attendance are at: http://student-rules.tamu.edu/rule07. Scanned documents that verify university-approved absences will be required, except for sudden personal or family emergencies, medical or otherwise, that may not fall under the official guidelines. TAMU’s rules for excused & unexcused absences can be found at: http://student-rules.tamu.edu/

Classroom Collegiality
To ensure that all of us have an enriching experience, please be courteous to everyone in class and:
• Turn off cell phones before class
• Don’t wander in and out of class, or be late without prior notice
• Do not consume food
• Only use computers to take notes [no social media posts] unless you are working on the video project
• Do not take pictures or video of the group without their consent

No Curving / No Extra Credit / Missed Classes
This course will not be curved and there will not be any extra credit or late work or submissions allowed unless you bring an excused medical absence. I will allow you to miss one group project without a penalty, but keep in mind that there is a percentage of your grade that is based on your laboratory notebook notes that includes class participation.

Grade Disputes
I am a fair person and like to be that way with students. If I make an unintentional mistake, I appreciate it if you kindly bring it to my attention and I will then carefully consider all polite, professionally-worded, well-reasoned disputes of any assignment scores, and will return my decision within 48 hours. Please use ink when filling out assignments. Do not use pencils if you want to be considered for a score dispute or re-grade. I will not accept unfounded personal appeals for grade changes, such as the “need” for a better grade.

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

Academic Integrity. Aggie Code of Honor
You are expected to work individually and only use the course materials for all assignments, unless you are working on a group project. Unauthorized use of someone else’s help or knowledge for your own assignments will be considered cheating and will be treated and penalized as such.
“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
http://aggiehoncr.tamu.edu

All images used in this syllabus and other course materials are protected by title 17 of the US Code of Law, which authorizes the fair use of copyrighted work for educational purposes.
Texas A&M University  
Departmental Request for a New Course  
Undergraduate + Graduate + Professional  
- Submit original form and attach a course syllabus. -

Four Instructions

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

2. Request submitted by (Department or Program Name):  
   Department of Ecosystem Science and Management  
   ESSM 324 Forest Measurements

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

4. Catalog course description (not to exceed 50 words):  
   Measures and measurement of the dimensions and attributes of forested areas including the diameters, heights, volume, and biomass of trees within a well-defined area; tools used for forest measurement; the conduct of forest inventories; summary measures and reports of inventory results; remote sensing and related technologies that assist forest measurements.

5. Prerequisite(s):  
   ESSM 319 or concurrent enrollment therein; junior or senior classification.

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

   If yes, from ______ to ______

6. Is this a variable credit course?  
   - Yes  
   - No  
   If yes, this course may be taken ______ times.

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

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

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

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

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

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

13. Prefix  
   Course #  
   Title (excluding punctuation)

   ESSM 310  
   Forest Tree Improve and Regen

   Lect.  
   Lab  
   Other  
   SCII  
   CH and Fund Code  
   Admin. Unit  
   Acad. Year  
   FICE Code

   0.00  
   4.00  
   0.00  
   2.00  
   0305060005  
   0841  
   16  
   17  
   0  
   0  
   3  
   6  
   3  
   2

   Approval recommended by:  
   Dr. Moh Khandelwal  
   Dr. Robert W. Knight  
   Dr. Kim Dooley

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

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

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  
Curricular Services – 07/14
Course title and number  ESSM 324  (0-4) 2 credits  
Term  TBD  
Meeting times and location  TBD;  HFSB 124  

Course Description

*Undergraduate Catalog:* Measures and measurement of the dimensions and attributes of forested areas including the diameters, heights, volume, and biomass of trees within a well-defined area. The tools used for forest measurement; the conduct of forest inventories. Summary measures and reports of inventory results. Remote sensing and related technologies that assist forest measurements. Prerequisite: ESSM 313 and 319 or concurrent enrollment therein.

*Narrative:* The management of, and studies pertaining to the science of forested areas both require information about the land and resources on the land in question. That information is obtained from the measurement of the land itself and of attributes of the land, most prominently the trees.

In this course you will learn of the many of the measures of forest attributes and the tools most commonly used to take those measurements. You will be introduced to how remotely sensed information, GIS, and GPS are used to assist in the measurement of forested areas.

We will spend as much time outdoors taking measurements as is possible. Unfortunately College Station is not a good place to be taking forest measurements. To make up for that there will be two required all-day Saturday labs in or near the Sam Houston National Forest. One day you will be taking a series of what are called fixed-radius (or fixed-area) plots and the other day a series of variable-radius plots. In both cases you will be bringing the data back to “the office” to be entered into a computer and later summarized.

*Prerequisites:* ESSM 313 and 319 or concurrent enrollment therein, junior or senior classification.

**Learning Objectives**

1. **Measurement and Analysis of Data**  
   - Demonstrate your ability to measure the two most commonly recorded attributes of tree size and how they can be used to estimate the most important measure of wood or biomass quantity.  
   - Demonstrate your ability to accumulate tree-level data to the plot level for fixed- or variable-radius plots and to summarize plot-level data to the stand or forest level.  
   - Describe the most commonly estimated value related to forest productivity.

2. **Spatial Science**  
   - Demonstrate your ability to measure the height of a tree from a pair of stereo pairs.  
   - Explain what the spectrum is; identify the area of the spectrum most useful for the identification of forest attributes and explain why it is useful.

3. **Critical and analytical thinking**  
   - Demonstrate the ability to think logically by implementing that logic to work up forest inventory data.
Instructor Information

Name: Dr. Marian Eriksson
Telephone number: 979-224-2648 (after 8 am and before 8 pm)
Email address: m-eriksson@tamu.edu
Office hours: Fridays 2-4 pm, 214 Centeq
Office location: 320 HFSB / 232 Centeq

Textbook and/or Resource Material

Required Texts:

Additional Reading
- Miscellaneous handouts to be posted on the course web-site.

Grading

- Active participation*: 20%
- Quizzes (may be take-home): 18%
- Saturday labs: 20%
- Weekly journal entries**: 30%
- Workup of inventory data: 12%

* This course is designed to be as hands-on as possible. Your hands “can only be on” if you participate. Attendance will be part of the participation grade. Late arrival or early departure will impact the participation grade, except in the case of excused absence (see below).

** The weekly journal entries are to include the following three elements:
1. A statement of what you learned during the week is first. Examples are: “I learned that a board foot is defined as a block of wood that is technically 1 inch thick, 1 foot wide, and 1 foot long,” and “I learned that digital imagery ‘uses’ properties of the spectrum”. The purpose of this it to help you to collect your thoughts and to solidify in your mind those concepts presented and learned.
2. Include a list of questions that you may still need answered. The purpose of this is for me to get feedback and to know if there are items that many have not grasped that may need more attention and to provide feedback back to you.
3. The submission of any data collected during the week and any summary information that you were asked to provide. Instructions will be provided in class. Elements 1 and 2 should be as comprehensive as possible without, combined, being more than a page in length. More details will be provided in the form of written instructions.

ATTENDANCE AND LATE WORK POLICY

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

Late work will be accepted in the case of a University Excused Absence with no penalty. All other work will be given a 20% penalty for every day it is late, including weekends. University Excused Absences
must have written verification, like a doctor’s note. There will be no makeup for missed quizzes, or work in the lab, except in the case of a University Excused Absence.

**AMERICANS WITH DISABILITIES ACT (ADA)**

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

**ACADEMIC INTEGRITY**

*“An Aggie does not lie, cheat, or steal, or tolerate those who do.”*  
For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

**TENTATIVE Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Class &amp; Laboratory Topics</th>
<th>Required Reading</th>
<th>Due (Friday)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Housekeeping; compass &amp; pacing</td>
<td>4.1-4.9</td>
<td>Journal entry</td>
</tr>
<tr>
<td>2</td>
<td>Traverses &amp; area calculation</td>
<td>4.10-4.14; handout</td>
<td>Journal entry</td>
</tr>
<tr>
<td>3</td>
<td>GIS; USPLS; topo maps</td>
<td>4.15-4.29</td>
<td>Journal entry</td>
</tr>
<tr>
<td>4</td>
<td>Diameters; density; heights; age; site index</td>
<td>7.1-7.21 15.11-15.20</td>
<td>Journal entry</td>
</tr>
<tr>
<td>6</td>
<td>RS2: The spectrum, digital imagery and lidar</td>
<td>Handouts</td>
<td>Journal entry</td>
</tr>
<tr>
<td>7</td>
<td>Volume &amp; biomass measures</td>
<td>5.1-5.12 6.1-6.16</td>
<td>Journal entry</td>
</tr>
<tr>
<td>8</td>
<td>Standing volume</td>
<td>8.1-8.16</td>
<td>Journal entry</td>
</tr>
<tr>
<td>10</td>
<td>Types of plots</td>
<td>11.1-11.27</td>
<td>Journal entry</td>
</tr>
<tr>
<td>11</td>
<td>Plot layout &amp; sample design; FIA &amp; FHM</td>
<td>10.1-10.20</td>
<td>Journal entry</td>
</tr>
<tr>
<td>12</td>
<td>Data summary &amp; analysis</td>
<td>Handout</td>
<td>Journal entry</td>
</tr>
<tr>
<td>13</td>
<td>Data analysis &amp; presentation</td>
<td>Handout</td>
<td>Journal entry</td>
</tr>
<tr>
<td>14</td>
<td>Redefined days</td>
<td></td>
<td>Journal entry</td>
</tr>
<tr>
<td>Final</td>
<td></td>
<td></td>
<td>Workups</td>
</tr>
</tbody>
</table>
The two redefined days “scheduled” during the last week of class are really placeholders; they represent days that you will be given “walks” to make up for a Saturday lab. These will most likely occur on the Thursday of the week following those labs unless it is a quiz week. Also because the four labs devoted to remote sensing will involve other instructors, the scheduling of those labs is tentative. Brown shading indicates quiz weeks. Quizzes will be either of short, open-everything-except-your-neighbor in-class quiz on Thursday or a set of questions that you will be allowed to work on and to turn in as part of your journal entry. The exact format will be announced on the Tuesday of a quiz week. This is true of the “final” as well.
Texas A&M University  
Departmental Request for a New Course  
Undergraduate * Graduate * Professional  
* Submit original form and attach a course syllabus.  

**Form Instructions**

1. Course request type:  
   - [ ] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (DDE, MD, JD, Ph.D., DVM)  

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

3. Course prefix, number and complete title of course:  
   FILM 445 Rhetoric of Television and Film  

4. Catalog course description (not to exceed 50 words):  
   Critical analysis of television and film; close readings of such mediated texts; special attention to writing television and film criticism.  

5. Prerequisite(s):  
   Jr. or Sr. Classification  
   Cross-listed with:  
   COMM 435  
   Stacked with:  

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

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

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

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

9. How will this course be graded?  
   - [x] Grade  
   - [ ] SU  
   - [ ] P/F (CLMD)  

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

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

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

13. Pref:  
   Course #:  
   Title (excluding punctuation):  
   FILM 445 Rhetoric of TV & Film  

<table>
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<th>Other</th>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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<td>1735</td>
<td>16 - 17</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

   Approval recommended by:  
   [Signature]  
   Date  

   Department Head or Program Chair (Name & Sign)  
   Date  

   [Signature]  
   Date  

   Chair, College Review Committee  
   Dean of College  

   [Signature]  
   Date  

   Associate Director, Curricular Services  

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

   Curricular Services - 07/14
Academic and popular discussion of mass-mediated texts often focuses on content (“What’s it mean?”). With an emphasis on practical criticism of those texts, this course explores their sometimes neglected form, building an introductory toolbox for thinking and writing about how the tales are told (“How does it mean what it means?”). We’ll develop our analysis of form at three levels: style (composition, cinematography, editing, and sound); narrative (the transformation of raw, unstructured events into a coherent, intelligible plot); and genre (the overarching systems of stylistic and narrative conventions that structure decision-making about form). In moving across these levels, we’ll move through three kinds of media: film (where we’ll introduce a framework for formal analysis); television (where we’ll explore how TV’s particular systems of production modify that analytic framework); and “other cameras, other screens” (where we’ll consider even more radical modifications to that framework, in media like comics, gaming, and mobile video). Though our main interest is in questions of form onscreen, we’ll also take steps back to pursue those questions off-screen, thinking about relations between form in mass-mediated texts and their contexts of production. All together, we’ll learn to recognize and analyze formal elements of style and narrative across media, in order to deepen our enjoyment, appreciation, and understanding of what’s formed. An extended syllabus posted on our eCampus “Content” page includes supplementary information about course requirements, as well as class notes.

LEARNING OUTCOMES: At the end of this course, you should be able to—
• Explain formal systems of style and narrative in film and television, and the transformations of those systems in other media;
• Describe, analyze, and evaluate the salient formal choices in works across media;
• Express your understandings according to the conventions of contemporary film criticism.

Course materials
Required readings are available on eCampus. Supplementary screenings are available at Media and Reserves (in the library annex), and on the web (at Netflix, Hulu, network websites, and so on). It’s your responsibility to access electronic resources successfully; be sure to leave a margin of error! Along with required readings, Bordwell and Thompson’s *Film Art* and Butler’s *Television: Critical Methods and Applications* offer helpful companions to the first and second part of the course, and I’m glad to suggest even further readings in the field.

Course requirements (You must pass the writing portion of this course to pass the course as a whole.)
Participation ..................................................................................................................................50
Along with responsive reading, consistent attendance and engagement is a prerequisite for doing well in this course (though we don’t have an attendance policy, typically missing more than a week of class will affect your mark; for University attendance and make-up policies, see http://student-rules.tamu.edu/rule07). In class, you should carry yourself in a way that reflects your good scholarship and citizenship in a prestigious institution. Most of your participation grade will reflect the quality and quantity of your in-class engagement; it might also include a handful of pop quizzes (for 5–10 points each).

Group scene project.....................................................................................................................125
In a small group with some of your colleagues, you’ll construct a film scene in a genre of your choice. Your genre should be narrowly delimited, with specific conventions of style and narrative (think “Hong Kong-style action movies,” for example, rather than “action movies,” or “period costume drama” rather than “romantic drama”). Your scene should demonstrate not only a mastery
of stylistic and narrative conventions within your genre, but also creative work within them (this
mastery and creativity will develop partly from your first homework assignments). You can submit
your scene in any format (in standard manuscript form, in screenplay format, in storyboards, as an
annotated shooting script). But what you submit should (1) clearly and explicitly communicate a
specific set of decisions and a specific vision, and (2) include a brief description and analysis of your
genre, and a list of the movies you watched in engaging it (in a developed paragraph or so apart from
your scene). You’ll share your scenes in informal presentations (while these are ungraded, they offer
the opportunity to put a flattering frame around your work; if you want to show a slideshow
presentation, you can submit that along with your scene). It’s my expectation that you’ll work as a
group, submit and present as a group, and be evaluated as a group; but if that expectation is not met,
significant and inappropriate disparities in effort will be reflected in individual grades.

**Homework assignment (and revision assignment; 150 + 25).....................................................175**
You’ll sign up for one homework assignment (1000–1200 words, or 3–4 double-spaced pages). In a
close reading of a media text of your choice, you’ll explore some question of form in the mass
media: (1) film composition; (2) film cinematography; (3) film editing; (4) visual style in 3-camera
television, in a sit-com, soap opera, or talk or game show; (5) visual style in reality television; (6)
stylistic connections and disconnections between film and television and another medium, like
comics, animation, or gaming. In the first part of the course, assignments will go to build our
framework for analyzing film style, and you’ll choose case studies from your group’s genre (e.g., if
your group is working on historical epics, you might sign up for production design, and look at a
scene from *Gladiator*). A week after I’ve returned your paper, you’ll resubmit a designated
paragraph revised according to my comments about writing (for 25 points).

**Response papers (3x50) ...............................................................................................................150**
You’ll write three informal response papers (500–600 words, or about two double-spaced page). In
these papers, you’ll apply some of our models for thinking about form, in readings of (1) an
“intensified” post-classical Hollywood film; (2) a single-camera “quality” television program; and
(3) a music video.

**Final paper...................................................................................................................................250**
In a 7–10 page final research paper, you’ll pursue in depth some question of form in the mass media,
after pitching me a topic for approval and feedback. Revisiting prior work might be acceptable, with
prior approval; in whole or in part, however, unapproved multiple submission is a form of academic
dishonesty. You might start from questions of style (e.g., “How is the narcotic experience rendered
in film style?”; “How have cinematographies of televised sport and sport video games influenced
one another?”; “How does continuity or discontinuity shape the process and outcome of screen
performance?”), questions of narrative (e.g., “How do fans evaluate complex ‘puzzle’ narratives like
those of *Lost* or *Heroes*?”; “How do critics and fans make sense of ‘endings’ to long-form serial
narratives like *Sopranos* and *Buffy*?”; “How do parallel narratives like *Crash* and *Syriana* challenge
and conserve conventions of classical Hollywood narrative?”), questions of genre (e.g., “How can
we characterize the stylistic and narrative conventions of teen TV after the maturation of the ‘MTV
aesthetic’?”; “How have soap opera conventions evolved in a changing programming marketplace?”;
“How do conventions of comic books shift in pursuit of new genres and new audiences?”), or
offscreen questions (e.g., “What converging and diverging interests characterize relations between
audiovisual productions and the locations where they shoot?”; “What legal and ethical issues come
into play when productions employ child performers?”; “How do television directors make sense of
their work at the intersection of art, craft, and commerce?”), or some combination of these questions.
Your paper culminates a writing work in progress; building from my comments, you should develop
your writing from one assignment to the next.

**Final exam ...................................................................................................................................250**

**Total........................................................................................................................................../1000**
Your evaluation considers the form of your work as well as its content. Substance counts more than style, but the effective communication of ideas implies their effective presentation as well. **It's a primary expectation that work composed outside of class will follow standard rules of form and style.** Evaluation is holistic; things like form and content are considered as parts of a whole, rather than separate parts assigned separate points. Evaluation is also more additive rather than subtractive; you achieve your “A” by doing things (very) well, not by not doing things poorly. And finally, **evaluation is not negotiable.**

• A (895–1000): In the A range, work not only meets but exceeds all assignment expectations, in the exceptional elegance of its form as well as the exceptional creative insight of its content. • B (795–895): In the B range, work meets all assignment expectations, demonstrating strong competence across the levels of both content and form; at the lower end of the range, minor lapses might diminish, but not endanger, that demonstration of competence (e.g., more than a handful of technical mistakes, an occasional slip or omission of argument). • C (695–794): In the C range, work meets all assignment expectations, but with more significant lapses that suggest only partial mastery at the levels of form and style (e.g., a pattern of technical mistakes, a lack of sufficient research appropriate to the assignment, a discussion limited to surface description, without sufficient depth of analysis). • D (595–695): In the D range, work approaches and substantively engages assignment expectations, but ultimately unsuccessfully, whether in not meeting major requirements (e.g., page count, research guidelines), or in other significant lapses in content or form (e.g., a lack of writing proficiency that falls below a university standard). • F (0–594): In the F range, work falls significantly short of meeting assignment expectations, or violates certain course policies listed in this outline (e.g., plagiarism, late submission).

**Course policies**

Late assignments and missed classes: Late and out-of-class submissions will be accepted only in cases of university-excused absences. Please review student rule 7 at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07), for more information concerning university approved absences.

Writing skills: Apart from quizzes and exams, all written work will be evaluated on the basis of writing skills—not only on points of grammar, but also on points of style like clarity, organization, and flow of ideas. Especially when dealing with complicated material, **style matters:** Give some care to the process of writing, revise your written work, peer edit, and so on!

Academic integrity and plagiarism: “An Aggie does not lie, cheat or steal, or tolerate those who do.” **Whether malicious or negligent, and whether in individual or group work, academic dishonesty won’t be tolerated.** Plagiarism is an especially serious offense, and penalties for plagiarism will always exceed a failing grade on the plagiarized work. When you borrow someone else’s words, images, or ideas, in direct quotation or paraphrase, you must acknowledge the borrowing with a specific in-text citation and on a list of references, distinguishing clearly where the borrowing ends and where your own work begins (in research as well as in writing, with Wikipedia as well as with any other source). As a rule of thumb, whatever does not come from your own mind should be cited. If you’re not sure, ask! For more information, visit [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu).

Mature content: Some of the examples screened and discussed in this course may include mature content (PG–R). If you have questions or concerns about viewing such content, let me know as soon as possible.

Electronic communications: Much of the communication among us will travel electronically, whether on eCampus or over email. You’re responsible for maintaining and checking working eCampus and email accounts. Please communicate me with over email, not eCampus mail!
**Course materials and copyright:** All materials generated in this course, including syllabi, quizzes, exams, essay questions, in-class materials, and review sheets, are copyrighted, and can’t be copied without permission.

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

**Preliminary course schedule**

<table>
<thead>
<tr>
<th>TOPIC/S</th>
<th>Day Date</th>
<th>Subtopic/s</th>
<th>Reading/s</th>
<th>Assignment/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTIONS; FILM/NARRATIVE</td>
<td>T 20 Jan:</td>
<td>Introducing COMM435/FILM489</td>
<td>“Film Narrative” notes (in extended syllabus)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introducing form: style/narrative/genre</td>
<td>Read extended syllabus pp 1–2, skim the rest, come with questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R 22 Jan:</td>
<td>Introductions (2)</td>
<td>Bring ranked HW prefs for signup, OR email me T–W (say “435”!)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Film / narrative (1)</td>
<td>Come with genre group suggestions</td>
<td></td>
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<tr>
<td>FILM / NARRATIVE; FILM / STYLE—COMPOSITION</td>
<td>T 27 Jan:</td>
<td>Film / narrative (2)</td>
<td>Thompson, “Basic Techniques” and “Structuring the Action”</td>
<td></td>
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<tr>
<td></td>
<td>R 29 Jan:</td>
<td>Composition—Production design</td>
<td>Barnwell, “From Concept to Construct”</td>
<td></td>
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<tr>
<td>FILM / STYLE—COMPOSITION; FILM / NARRATIVE—CHARACTER</td>
<td>T 3 Feb:</td>
<td>Composition—Lighting; Costume and makeup; Staging</td>
<td>Bordwell, from <em>Figures Traced in Light</em></td>
<td></td>
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<tr>
<td></td>
<td>R 5 Feb:</td>
<td>Composition—Performance; Narrative—Character</td>
<td>HW1—COMPOSITION</td>
<td></td>
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<tr>
<td>FILM / STYLE—CINEMATOGRAPHY AND EDITING (1)</td>
<td>T 10 Feb:</td>
<td>Cinematography (a)</td>
<td>Monaco, “Mise-en-scène”; “The Diachronic Shot”</td>
<td></td>
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<tr>
<td></td>
<td>R 12 Feb:</td>
<td>Editing (a)</td>
<td>Thompson, “The Continuity System”</td>
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<tr>
<td>FILM / STYLE—CINEMATOGRAPHY AND EDITING (2)</td>
<td>T 17 Feb:</td>
<td>Cinematography and editing (b)</td>
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<tr>
<td></td>
<td>R 19 Feb:</td>
<td>Group scene project workshop</td>
<td></td>
<td></td>
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</tbody>
</table>
### FILM / STYLE—CINEMATOGRAPHY AND EDITING (3); SOUND

| T 24 Feb: | Cinematography and editing (c) |
| R 26 Feb: | Sound Problems in style and narrative |

**HW2—CINEMATOGRAPHY**  
**HW3—EDITING**

- Kerins, “Narration in the Cinema of Digital Sound”
- Bordwell, “Aesthetics in Action” (skim)
- Benshoff, “The Short-Lived Life of the Hwood LSD Film” (skim)

### SYNTHESIZING FILM FORM

| T 3 Mar: | Documentary style and narrative and “new factual forms” |
| R 5 Mar: | Intensifications of style and narrative? |

**Mast, “New Directions in Hybrid Popular Television” (231–236)**

Bordwell, “Intensified Continuity: Visual Style”  
Bordwell, “Subjective Stories and Network Narratives”

**RP1—INTENSIFICATIONS**

### TELEVISION / STYLE AND SYSTEMS OF PRODUCTION

| T 24 Mar: | Liveness and television realism  
Early systems: 1-cam live, 3-cam live, 3-cam film |
| R 26 Mar: | 3-cam systems—from the control room and on screen |

**Butler, “Notes on the Soap Opera Apparatus”**  
**Barker, “Production Variables in the Situation Comedy”**

### TELEVISION / STYLE AND SYSTEMS OF PRODUCTION

| T 31 Mar: | Offscreen—video, as alternative and commercial medium |
| R 2 Apr: | 1-cam film (1)—Defining quality style |

**Halleck, “Paper Tiger Television”**  
**Gitlin, “Hill Street Blues: Make it Look Messy”**  
**Butler, “VR in the ER” (313–321)**

### TELEVISION / STYLE AND SYSTEMS OF PRODUCTION

| T 7 Apr: | 1 cam film (2)—Contemporary quality style |
| R 9 Apr: | Reality TV hybrid systems |

**RP2—MAPPING QUALITY STYLE**  
**HW5—REALITY TV HYBRID SYSTEMS**

16–20 March: Spring Break!
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Authors/Readings</th>
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<tbody>
<tr>
<td>T 14 Apr</td>
<td>Introducing television narrative</td>
<td>Newman, “From Beats to Arcs”</td>
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<td></td>
<td>The sit-com</td>
<td>Modleski, “The Search for Tomorrow in Today’s Soap Operas”</td>
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<td>R 16 Apr</td>
<td>Series drama, seriality and complexity</td>
<td>Ndalianis, “Television and the Neo-Baroque”</td>
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<td>Ornebring, “The Show Must Go On . . . and On”</td>
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<td>T 21 Apr</td>
<td>Broken windows: Screen design, CGI, music video</td>
<td>Vered, “Televisual Aesthetics in Y2K”</td>
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<td>Allen, “The Impact of Digital Technologies on Film Aesthetics”</td>
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<td></td>
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<td>Vernallis, “The Kindest Cut”</td>
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<td>R 23 Apr</td>
<td>Comics</td>
<td>McCloud, “Time Frames”</td>
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<td>Smith, “<em>Shaping The Maxx</em>”</td>
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<tr>
<td>T 28 Apr</td>
<td>Animation Gaming</td>
<td>Brooker, “Camera Eye, CG-Eye: Videogames and the ‘Cinematic’”</td>
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<td>Wolf, “Inventing Space”</td>
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<td>Zagal, et al, “Rounds, Levels, and Waves”</td>
</tr>
<tr>
<td>R 30 Apr</td>
<td>The politics and poetics of digital video</td>
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</tr>
<tr>
<td>Final exam: M 11 May, 1-3PM</td>
<td>FINAL PAPER</td>
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</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

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

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

3. Course prefix, number and complete title of course: MEEN 439: Solar Energy Engineering

4. Catalog course description (not to exceed 50 words):

Introduction to Solar energy; solar angles and radiation; solar thermal systems; solar water heating and space heating; concentrated solar power; energy storage; solar photovoltaics; solar cell manufacturing; other solar energy technologies.

5. Prerequisite(s):

<table>
<thead>
<tr>
<th>Course</th>
<th>Cross-listed with</th>
<th>Stacked with</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEEN 315</td>
<td></td>
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</tr>
</tbody>
</table>

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

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

7. Is this a repeatable course? [ ☑ No] [ □ Yes]

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

If yes, this course may be taken ________ times.

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

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

10. This course will be:

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

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

BS in MEEN and other engineering programs.

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-fors-distance-education)].

13. Prefix | Course # | Title (excluding punctuation)
----------|----------|--------------------------
MEEN | 439 | SOLAR ENERGY ENGINEERING

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Approval recommended by:

Timothy J. Jacobs
Department Head or Program Chair
2015.03.25 14:42:24 -05'00'

Chair, College Review Committee
Date

Dean of College
Date

Chair, GC or UCC
Date

Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
HONOR CODE: **Aggie Honor Code:** "An Aggie does not lie, cheat, or steal, or tolerate those who do."
Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: [aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

On all course work, assignments, and examinations at Texas A&M University, the following Honor Pledge is implied regardless if it is preprinted and signed by the student: "On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."

INSTRUCTOR: Dr. Ying Li
EMAIL: yingli@tamu.edu
PHONE NUMBER: 979-862-4465
OFFICE NUMBER: MEOB 322
Office Hours: TBD

TA: TA’s NAME: TBD
TA’s EMAIL: TBD
Office Hours: TBD

PREREQUISITES: MEEN 315 or graduate standing. It is the student’s responsibility to ensure proper requirements are satisfied for enrollment in this course. Students not meeting course prerequisites will be automatically dropped after the first week of class.


COURSE CONT’T: Introduction to solar energy; solar angles and radiation; solar thermal systems; solar water heating and space heating; concentrated solar power; energy storage; solar photovoltaics; solar cell manufacturing; other solar energy technologies.
**GRADING:**

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate Students</th>
<th>Graduate Students</th>
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<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
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<tr>
<td>Quiz</td>
<td>20%</td>
<td>Quiz*</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>30%</td>
<td>Midterm Exam*</td>
</tr>
<tr>
<td>Team Project</td>
<td>30%</td>
<td>Team Project</td>
</tr>
<tr>
<td>Review Paper</td>
<td>10%</td>
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*Additional or higher difficulty level problems will be given to graduate students

**LETTER ASSIGNMENT SCHEME:**

90 ≤ A ≤ 100; 80 ≤ B < 90; 70 ≤ C < 80; 60 ≤ D < 70; F < 60

Lower bounds may or may not be adjusted to students’ advantages.

**GRADES CANNOT BE DISCUSSED OVER THE PHONE OR THROUGH AN EMAIL ACCOUNT OTHER THAN YOUR UNIVERSITY ACCOUNT.**

**TEAM WORK:**

Only homework assignments and team project are expected to be completed through team efforts. Each team should consist of no more than four persons. Undergraduate and graduate students are not allowed in the same team. Each team should identify a name and a team leader. At the end of the semester, there will be a peer evaluation within the team which will also affect the grade earned by each person. Detailed guidelines will be given later in the semester.

**HOMEWORK:**

About five homework problem sets will be assigned during the semester. Students are encouraged to discuss with team members on the homework and only one copy from each team needs to be turned in. Discussion between the teams is, however, prohibited. Homework must be completed in an organized and neat manner. For each problem, list the information given in the problem statement, the assumptions you made, and the unknowns. The solution of the problem should be presented in a logical format. A schematic diagram of the problem should be included. All homework solutions should be legible, and any multiple page assignments should be stapled by the student. Homework must be handed in at the beginning of the class on the due date. **LATE HOMEWORK WILL NOT BE ACCEPTED AND WILL BE GIVEN A ZERO GRADE EXCEPT FOR UNIVERSITY APPROVED EXCUSES** (see Absence/Waiver Policy).

**QUIZ:**

There will be six to seven open-book quizzes during regular class time. Students can have one lowest-score quiz dropped. No make-up quizzes will be given (see Absence/Waiver Policy).

**PROJECT:**

There is one project required for each team. The goal of the project is to apply certain solar energy technology to solve practical engineering problems. The assignments of the project include a written proposal (10 percent), a written final project (60 percent), and an in-class power-point presentation (30 percent). Detailed guidelines for the project will be given later in the semester.

**EXAMINATIONS:**

There is one open-book comprehensive midterm exam near the end of the semester. **There is no final exam.** Electronic devices except calculators are prohibited during the exam. Make-up exams are only given under situations that apply to university student rules (see Absence/Waiver Policy). The student must contact the instructor before the exam to state that he/she will not be able to attend the exam. Valid, properly documented and signed paperwork will be required before make-up exams will be given.
**REVIEW PAPER:** This is for graduate students only. Each graduate student will write a literature review paper on topics within the field of solar energy engineering. It includes a proposal/outline of paper (20 percent) and a final paper (80 percent). Guidelines about the review paper will be given later in the semester.

**ABSENCES/WAIVERS** Work missed due to absences will only be excused for University-approved activities in accordance with TEXAS A&M UNIVERSITY STUDENT RULES (see http://student-rules.tamu.edu/rule07). Please note that job/internship interviews and other discretionary personal travel do not qualify for the excused absence policy. For anticipated excused absences, the student must contact the instructor prior to the absence. In cases where advance notification is not feasible (e.g. accident, or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class. When an Assignment Waiver is issued for a missed homework assignment or quiz, the waiver removes the missed homework or quiz when computing the student’s total homework or quiz score. The instructor may give a make-up exam that is different from but at a similar level to the missed exam. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. In order to receive a waiver for missed work whether by prior arrangement or unplanned, a student must provide a completed Assignment Waiver request to the instructor. This form is available on the class website. MISSED ASSIGNMENTS WILL NOT BE EXCUSED WITHOUT SUBMITTING A HARDCOPY OF THE SIGNED ASSIGNMENT WAIVER FORM TO THE COURSE INSTRUCTOR.

**LATE ASSIGN’TS:** Unexcused late assignments will not be accepted.

**E-CAMPUS:** This course will make use of the eCampus website, ecampus.tamu.edu. All course handouts, homework assignments and solutions, sample exams, project guidelines, grades, auxiliary lectures, and a question forum are available on eCampus. Although you will be able to see your individual scores, you cannot see other students’ scores and vice versa.

**ADA:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services (disability.tamu.edu) in Room B118 of Cain Hall or call 845-1637.
NOTE: Actual Lectures may (and likely will) depart from this schedule. Exam material will be consistent with the actual lecture material.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Text Coverage</th>
<th>Assignments due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus; Introduction of Energy and the Environment; Renewable Energy Profile in the US.</td>
<td>Chapter 1; Handouts</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Solar Energy Technology Overview; Basic principles and terminology</td>
<td>Chapter 1; Handouts</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Solar Angles</td>
<td>Chapter 2</td>
<td>HW 1 due</td>
</tr>
<tr>
<td>4</td>
<td>Solar Radiation</td>
<td>Chapter 2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Solar Collectors and Thermal Analysis</td>
<td>Chapters 3-4</td>
<td>HW 2 due</td>
</tr>
<tr>
<td>6</td>
<td>Solar Collectors and Thermal Analysis</td>
<td>Chapter 3-4</td>
<td>Both project proposal and review paper proposal due</td>
</tr>
<tr>
<td>7</td>
<td>Solar Water Heating and Space Heating</td>
<td>Chapters 5-6</td>
<td>HW 3 due</td>
</tr>
<tr>
<td>8</td>
<td>Solar Photovoltaic</td>
<td>Chapter 9; Handouts</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Solar Photovoltaic</td>
<td>Chapter 9; Handouts</td>
<td>HW 4 due</td>
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<tr>
<td>10</td>
<td>Energy Storage Systems</td>
<td>Handouts</td>
<td>Midterm Exam</td>
</tr>
<tr>
<td>11</td>
<td>Concentrated Solar Power</td>
<td>Chapter 10; Handouts</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Hybrid Systems; Other Solar Energy Technologies</td>
<td>Handouts</td>
<td>HW 5 due</td>
</tr>
<tr>
<td>13</td>
<td>Team Project Presentation</td>
<td>Handouts</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Team Project Presentation</td>
<td>Both final Project Report and Review Paper due.</td>
<td></td>
</tr>
</tbody>
</table>
MEEN 439  Solar Energy Engineering

REQUIRED OR ELECTIVE:  Elective

CATALOG DESCRIPTION:  Introduction to solar energy; solar angles and radiation; solar thermal systems; solar water heating and space heating; concentrated solar power; energy storage; solar photovoltaics; solar cell manufacturing; other solar energy technologies. Three credits (3–0).

PREREQUISITES:  MEEN 315 or graduate standing.


COURSE LEARNING OUTCOMES:  At the end of the course, the student should be able to:

**Numbers in brackets indicate the relationship of the learning outcome to program outcome(s).**

1. Recognize energy-environment nexus, renewable energy technology, and basic solar energy engineering processes and devices [a, h, j]
2. Calculate solar angles on a given date and time and at a given location [a, e]
3. Calculate sunrise and sunset times and day light length on a given date and location. [a, e]
4. Calculate extraterrestrial and terrestrial solar radiation on a flat and tilted surface. [a, e]
5. Identify different types of solar thermal collectors and understand their working principles [a, c, e]
6. Conduct thermal analysis of a solar collector and understand the factors contributing to energy loss [a, c, e]
7. Analyze collector thermal efficiency of flat-plate and concentrated solar collectors [a, c, e]
8. Describe basic principles of solar water heating, space heating and space cooling. [a, c, e]
9. Describe heat storage systems and characteristics of storage media. [a, e]
10. Apply conservation principles (mass and energy) to analyze thermal efficiency of an integrated solar energy collection and storage system [a, c, e]
11. Describe basic principles of solar photovoltaics and analyze solar cell performance. [a, e]
12. Design solar PV arrays based on load characteristics [a, c, e]
13. Describe basic principles of electric energy storage systems (batteries). [a, e]
14. Describe the principle and design of a solar thermal power plant [a, c, e]
15. Evaluate the impact of solar energy technology on the environment in the context of reduced emissions of greenhouse gases [a, e, h, j]
16. Collect, analyze, and present experimental data both individually and on teams [a, d, e, g, k]
17. Write technical reports both individually and on teams [d, g, k]

TOPICS:  

| Week 1: | Introduction; Energy and environment nexus; Renewable energy profile in the US. |
| Week 2: | Solar Energy Technology Overview; Basic principles and terminology |
| Week 3: | Solar Angles |
| Week 4: | Solar Radiation |
| Week 5: | Solar Collectors and Thermal Analysis |
| Week 6: | Solar Collectors and Thermal Analysis |
| Week 7: | Solar Water Heating and Space Heating |
| Week 8: | Solar Photovoltaic |
| Week 9: | Solar Photovoltaic |
| Week 10: | Energy Storage Systems; Midterm Exam |
| Week 11: | Concentrated Solar Power |
| Week 12: | Hybrid Systems; Other Solar Energy Technologies |
| Week 13: | Team Project Presentation |
| Week 14: | Team Project Presentation. Evaluations. |
CLASS/LABORATORY SCHEDULE: 150 minutes per week (two or three classes a week), taught in lecture session, group discussion, and active learning styles. Project and problem-solving teaming emphasized. Teams of four are organized, and each team must design, analyze and report on a solar energy harvesting/conversion system.

CONTRIBUTION TO MEETING REQUIREMENTS OF CRITERION 5:

<table>
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<th>Subject</th>
<th>Semester hrs</th>
<th>Subject</th>
<th>Semester hrs</th>
<th>Subject</th>
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<td>Basic Science</td>
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<td>Engineering Design</td>
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</table>

RELATIONSHIP OF COURSE TO PROGRAM OUTCOMES:

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<tr>
<th>ABET Program Outcome</th>
<th>ABET Program Outcome</th>
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<tbody>
<tr>
<td>x a. ability to apply knowledge of mathematics, science and engineering</td>
<td>f. understanding of professional and ethical responsibility</td>
</tr>
<tr>
<td>x b. ability to design and construct experiments, and analyze and interpret data</td>
<td>x g. ability to communicate effectively</td>
</tr>
<tr>
<td>x c. ability to design a system, component, or process to meet desired needs within</td>
<td>x h. education to understand the impact of engineering solutions in a global, economic,</td>
</tr>
<tr>
<td>realistic constraints</td>
<td>environmental, and societal context</td>
</tr>
<tr>
<td>x d. ability to function on teams (not necessarily multi-disciplinary)</td>
<td>x i. recognition of the need for, and an ability to engage in life-long learning</td>
</tr>
<tr>
<td>x e. ability to identify, formulate and solve engineering problems</td>
<td>x j. a knowledge of contemporary issues</td>
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<td></td>
<td>x k. ability to use the techniques, skills and modern engineering tools necessary for</td>
</tr>
<tr>
<td></td>
<td>engineering practice</td>
</tr>
</tbody>
</table>

Prepared by Ying Li                                                                 | Date March 13, 2015

MEEN 439 syllabus, updated on 3/13/2015
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 (e.g., DVM, JD, MD, etc.)

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

3. Course prefix, number and complete title of course: MEEN 469 - Alternative Energy Conversion

4. Catalog course description (not to exceed 50 words): Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g., geothermal, ocean gradients, solar, and nuclear fission and fusion) and obtaining energy from the environment (e.g., wind, hydroelectric, ocean tides and waves).

5. Prerequisite(s): MEEN 315

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

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

   BS in Mechanical Engineering

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

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

12. Prefix Course # Title (excluding punctuation)

   MEEN 469 ALTERNATIVE ENERGY CONVERSION

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<th>SCH</th>
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Approval recommended by:

Dr. Timothy J. Jacobs
Department Head or Program Chair (Type Name & Sign) Date: 2015.06.30
Digitally signed by Timothy J. Jacobs Date: 2015.06.30 16:06:40-05'00'

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14
MEEN 469 Syllabus

Alternative Energy Conversion

Fall 2016

Instructor: Dr. Michael Pate

Office: 317 Engineering/Physics Building
        979-458-2264
        mpate@tamu.edu

Classroom: ENPH 202

Time: MWF 10:20 – 11:10 AM (3 credits)

Office Hours: TBD

Course Catalog Description:

Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g. geothermal, ocean gradients, solar, and nuclear fission and fusion) and obtaining energy from the environment (e.g. wind, hydroelectric, ocean tides and waves).

Course Objectives:

The objective is to provide the engineering principles required to analyze, design and evaluate alternative energy conversion processes and systems. The skills required to compare the various technologies from both a technical, economic and feasibility standpoint will be provided.

Course Text:

There is not an assigned text; rather, students will utilize instructor notes, contemporary literature/publications and the internet as directed.

Class Attendance:

Class attendance is mandatory and will be taken daily. Student Rule 07 applies regarding attendance and the excusing of absences; see http://student-rules.tamu.edu/rule07. It is the student’s responsibility to maintain and submit upon request email documentation with the instructor for excused absences. Two unexcused absences result in a 5% final grade reduction, while two more unexcused absences equal another 5%, etc. If you do miss class for a valid reason (i.e. excused absence), make sure that you have a contact person who can get you a copy of the homework and tell you what material was covered in class that day.

Grading System:

At the conclusion of the course, grades will be assigned based on each student’s performance as measured by the average percent score for the semester as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90 - 100%</td>
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<tr>
<td>B</td>
<td>80 &lt; 90%</td>
</tr>
<tr>
<td>C</td>
<td>70 &lt; 80%</td>
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<tr>
<td>D</td>
<td>65 &lt; 70%</td>
</tr>
<tr>
<td>F</td>
<td>0 &lt; 65%</td>
</tr>
</tbody>
</table>
Homework/ Projects (70% of grade):

You will be assigned anywhere from 25-35 homework exercises, and they are always due at the next class period. With regards to grading HW, the following four areas will be evaluated as shown:

1. Methodology/neatness/organization 0  1  2  3
2. Equations/calculations/numerical/unites 0  1  2  3
3. Comments/discussions/reflections 0  1  2  3
4. Lessons learned 0  1

As you can see, plugging and chugging to get an answer, even if correct, is only about 30% of the total credit. Many HW problems will not involve calculations, but rather they will address "critical thinking" essay questions, which require considerable knowledge-gathering over the internet. In this latter case, your written response to the questions should always be in your own words. Violations of this policy will be considered a violation of the «Aggie Honor Code," and will be dealt with accordingly. As a final note, all of the writings that you turn in can be first-draft material, rather than polished.

Homework will be graded by using a letter grade approach that is converted to a numerical score at the end of the course as follows:

| A + (10), | B (8), | F+ (4), |
| A (9.5), | C (7), | F (2), |
| A – (9), | D (6), | F- (0). |

If you turn in homework late, then your maximum score will be reduced to a "C", and then a full letter grade for each late class period thereafter. Even if you have an excused absence from class, you are still responsible for doing the homework, without a late penalty. (turn in as soon as possible, but no more than one week after the missed class)

HLO's (30% of grade):

HLO's (High Learning Opportunities) are in-class exercises that consist of you working with a partner. At the end of class, they are collected and graded for "effort" rather than "content" (otherwise they would be called quizzes). The grading scale will be similar to that used for homework. We will do about 30 of these over the duration of the course. If you have an unexcused absence, you will receive zero points for that day's HLO. If you have an excused absence, missing the HLO will not hurt your final course score, and you do not need to make up the HLO.

Class Notebook:

You are required to maintain a "class notebook/portfolio" that you should keep updated with all of your graded work (HW's and HLO's). This notebook/portfolio will be periodically collected and evaluated. It is your responsibility to keep track of all your scores (HW and HLO's), and in this regard, your notebook/portfolio should also contain a "score sheet" (supplied by me) showing points awarded and maximum points possible for all of your assignments. At the end of the course, this score sheet (which you need to keep up to date) will be used as a check-off when I go through your graded work again to calculate your final grade (as such, you will not get credit for work that is lost or omitted from your notebook). If you want, you can keep handouts and class notes (taken by you) in a separate file, which I will not collect.
List of Topics: (Not necessarily in order of coverage)
- Introduction and Principles of Energy Conversions
- Fossil Fuels and the Environment
- Solar Energy Basics
- Solar Energy for Power Production
- Fuel Cells and the Hydrogen Economy
- Electric and Hybrid Cars
- Wind Power Production
- Power Production from Nuclear Fission and Fusion Processes
- Geothermal Energy Conversion and Production
- Hydroelectric Energy Production – Lakes and Rivers
- Ocean Waves, Tidal and Thermal Energy
- Biomass Energy Production and Use
- Energy Storage Technologies
- Advanced Energy Concepts
- Evaluation and Comparison of Technologies

Course Learning Outcomes:

At the end of this course, students should be able to:

1. Apply the general energy and mass conservation equations to a wide variety of alternative energy conversion processes and systems.
2. Formulate and apply assumptions to real-world alternative energy conversion technologies for the purpose of developing mathematical models for design and analysis.
3. Perform alternative energy engineering calculations with an understanding of their accuracy and relationship to the real-world of energy engineering.
4. Provide a conceptual understanding of a wide range of alternative energy conversion technologies to include precise knowledge of processes, components and systems that comprise each technology.
5. Quantify the potential that each individual alternative energy conversion technology has for contributing to reductions in fossil-fuel use while at the same time appreciating the limitations and challenges that must be addressed for real-world applications.

Americans with Disabilities Act (ADA) Policy Statement

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

Academic Integrity Statement

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

It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty (Student rule 20. Scholastic Dishonesty, http://student-rules.tamu.edu). New procedures and policies have been adopted effective September 1, 2004. Details are available through the Office of the Aggie Honor System (http://aggiehonor.tamu.edu/). An excerpt from the
Philosophy & Rationale section states: “Apathy or acquiescence in the presence of academic dishonesty is not a neutral act—failure to confront and deter it will reinforce, perpetuate, and enlarge the scope of such misconduct. Academic dishonesty is the most corrosive force in the academic life of a university.”

**Additional Information:**

Office hours will be established and posted during the first week of classes. If necessary, feel free to contact me at other times for help, however if you stop by at times other than office hours, I may be in labs or at meetings. You can also email me at mpate@tamu.edu if you have questions.

Please discuss any special needs or special accommodations with me at the beginning of the semester or as soon as you become aware of your needs.
# 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):**
   - Harold Vance Department of Petroleum Engineering
   - PETE 337-Junior Student Paper Contest

3. **Course prefix, number and complete title of course:**
   - PETE 335

4. **Catalog course description (not to exceed 50 words):**
   - Presentation of a technical proposal on a subject related to petroleum technology judged by petroleum professionals at the junior level departmental student paper contest.

5. **Prerequisite(s):**
   - PETE 335

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

7. **Is this a variable credit course?**
   - [ ] Yes
   - [x] No
   - If yes, from ________ to ________

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

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

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

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

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

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

14. **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).**

## Table: JUNIOR STUDENT PAPER CONTEST

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<th>Admin. Unit</th>
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<th>FICE Code</th>
<th>Level</th>
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<td>3 6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by:

A.D. Hill

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

Chair, College Review Committee Date

Dean of College Date

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
DATE: July 2, 2015

TO: Tim Scott, Chair
University Curriculum Committee

THROUGH: Valerie E. Taylor
Senior Associate Dean for Academic Affairs

FROM: A.D. Hill
Department Head, Petroleum Engineering

SUBJECT: Petroleum Engineering Zero-Credit Course Requests

Attached are the New Course Request forms for PETE 337-Junior Student Paper Contest and PETE 437-Senior Student Paper Contest. These new course requests have been discussed and approved by the Petroleum Engineering Department Undergraduate Curriculum Committee.

PETE 337 and 437 are requested zero credit courses similar to our PETE 300 Summer Practice course. There are no syllabi for these courses as they are degree requirements that must be met by completing the specific items, i.e. PETE 337 is completion of the Junior Student Paper Contest presentation, and PETE 437 is completion of the Senior Student Paper Contest presentation. These are similar to our PETE 300 Summer Practice course which requires that students complete an internship. Having separate courses for these requirements allows the students to register for them to facilitate completion of their degree requirements, and enables the department to better track student completion.

Thank you for your consideration.
Petroleum Engineering 337
Junior Student Paper Contest
Credit 0
Required for Juniors

Term: Fall 2016

Meeting Times and Location:
Spring semester; Department announced time and location

Instructor: Dr. Duane McVay, 407B Richardson, 979.862.8466
mcvay@tamu.edu

Catalog Description: Presentation of a technical proposal on a subject related to petroleum technology judged by petroleum professionals at the junior level departmental student paper contest.

Prerequisites(s): PETE 335

Textbook Required: none

Topics Covered: Depends on the technical content prepared for presentation in PETE335

Class/Laboratory Schedule: Attendance on designated Saturday for Junior level Student Paper Contest in Spring semester.

Contributions to Meeting the Curriculum Requirements of Criterion 5:

<table>
<thead>
<tr>
<th>Math and Science</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>Provides skills to identify and propose plans for solution of petroleum engineering problems. Provides skills to formulate technical proposals, present them in written form and orally in a professional setting.</td>
</tr>
<tr>
<td>General Education</td>
<td>None</td>
</tr>
</tbody>
</table>

Course Learning Outcomes and Relationship to Program Outcomes:

<table>
<thead>
<tr>
<th>Course Learning Outcome: At the end of the course, students will be able to…</th>
<th>Program Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present the proposal orally to a panel of practicing engineers from the petroleum industry and faculty members in 10 to 15 minutes, using PowerPoint slides</td>
<td>7</td>
</tr>
</tbody>
</table>

Related Program Outcomes:

<table>
<thead>
<tr>
<th>No.</th>
<th>PETE graduates must have…</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>An ability to communicate effectively</td>
</tr>
</tbody>
</table>

Prepared by: Priscilla G. McLeroy, 11 August 2015
Grading Policies:

Course evaluated based on being judged at a Junior level Student Paper Contest. If student completes by receiving a judge’s evaluation, then the course is completed satisfactorily. If student is not judged for a presentation on the day of a Junior level Student Paper Contest, then the student receives an Unsatisfactory grade.

Grading Scale:
Satisfactory ……………… Was judged at a Junior level Student Paper Contest
Unsatisfactory …………… Was not judged at a Junior level Student Paper Contest

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

American with Disabilities Act (ADA):

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

**Form Instructions**

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

2. **Request submitted by (Department or Program Name):**  
   Harold Vance Department of Petroleum Engineering

3. **Course prefix, number and complete title of course:**  
   PETE 437-Senior Student Paper Contest

4. **Catalog course description (not to exceed 50 words):**  
   Presentation of a technical petroleum engineering topic judged by petroleum professionals at the senior level departmental student paper contest.

---

**RECEIVED**  
**APR 15 2015**

---

5. **Prerequisite(s):**

   PETE 337  
   CONROBITE: PETE 485

   Cross-listed with:  
   Stacked with:

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>PETE</th>
<th>437</th>
<th>SENIOR STUDENT PAPER CONTEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
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<td>Lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   **Approval recommended by:**  
   A.D. Hill  
   Date: 4/9/15

   Chair, College Review Committee  
   Date

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

   **Date**

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

   **Date**

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

   **Effective Date**

---

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  
Curricular Services – 07/14
DATE: July 2, 2015

TO: Tim Scott, Chair
University Curriculum Committee

THROUGH: Valerie E. Taylor
Senior Associate Dean for Academic Affairs

FROM: A.D. Hill
Department Head, Petroleum Engineering

SUBJECT: Petroleum Engineering Zero-Credit Course Requests

Attached are the New Course Request forms for PETE 337-Junior Student Paper Contest and PETE 437-Senior Student Paper Contest. These new course requests have been discussed and approved by the Petroleum Engineering Department Undergraduate Curriculum Committee.

PETE 337 and 437 are requested zero credit courses similar to our PETE 300 Summer Practice course. There are no syllabi for these courses as they are degree requirements that must be met by completing the specific items, i.e. PETE 337 is completion of the Junior Student Paper Contest presentation, and PETE 437 is completion of the Senior Student Paper Contest presentation. These are similar to our PETE 300 Summer Practice course which requires that students complete an internship. Having separate courses for these requirements allows the students to register for them to facilitate completion of their degree requirements, and enables the department to better track student completion.

Thank you for your consideration.
Petroleum Engineering 437
Senior Student Paper Contest
Credit 0
Required for Seniors

Term: Fall 2016

Meeting Times and Location:
Spring semester; Department announced time and location

Instructor: Dr. Duane McVay, 407B Richardson, 979.862.8466
mcvay@tamu.edu

Catalog Description: Presentation of a technical petroleum engineering topic judged by petroleum professionals at the senior level departmental student paper contest.

Prerequisites(s): PETE 337

Co-requisite: PETE 435

Textbook Required: none

Topics Covered: Depends on the petroleum engineering technical content prepared for presentation

Class/Laboratory Schedule: Attendance on designated Saturday for a Senior level Student Paper Contest in Spring semester.

Contributions to Meeting the Curriculum Requirements of Criterion 5:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Engineering</td>
<td>Provides skills to communicate an independent study of a petroleum engineering problem, synthesizing results and drawing appropriate conclusions from the study. Provides skills to give oral presentations in a professional setting.</td>
</tr>
<tr>
<td>General Education</td>
<td>None</td>
</tr>
</tbody>
</table>

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

Form Instructions

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

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

3. Course prefix, number and complete title of course: RELS 436 Ancient Egypt

4. Catalog course description (not to exceed 50 words):
The archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period.

5. Prerequisite(s): Junior or Senior classification or approval of instructor

Cross-listed with: ANTH 436

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 ICD:

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

10. This course will be:

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

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

   BA ANTH, ANTH Minor, RELS Minor, and general academic

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

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

13. Prefix Course # Title (excluding punctuation)

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<th>436</th>
<th>Ancient Egypt</th>
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</table>

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

Chair/College Review Committee

Ted Goebel
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

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

CURRICULAR SERVICES

RECEIVED
AUG 2 1 2015
ANCIENT EGYPT
ANTH/RELS 436
SYLLABUS

SPRING <<YEAR>> (Tuesdays and Thursdays 11:10 AM-12:25 PM)

Anthropology Building, Room 237

Shelley Wachsmann, Ph.D.
Meadows Professor of Biblical Archaeology
Nautical Archaeology Program, Department of Anthropology, Texas A&M University

Office hours: Wednesdays 3:00-5:00 PM, or by appointment at the
Nautical Archaeology Program, Anthropology Department, Room 121.
Telephone (979) 847-9257; E-mail: swachsmann@tamu.edu

Teaching Assistant: _______________. Email: ________________

The archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period.

LEARNING OUTCOMES
Students will:
A) Articulate the rich matrix of Egyptian history and material culture
B) Appraise how these physical remains fit into an overall humanistic understanding of the Egyptian world and how they influence modernity
C) Interpret archaeological discoveries
D) Identify the interrelationship of various sources—texts, artifacts, iconography, etc.—so as to be capable of interpreting and understanding the past

GRADING POLICIES
We will cover the period from earliest human settlement to the end of the New Kingdom period. Classes will be devoted primarily to Keynote™ lectures. We will also see two video presentations. The final grade will be based on the total grades earned by the student from, three tests (two mid-term examinations and a final examination, each worth 25 points) and a 10-page term paper (25 points) due the last day of class (<<DAY>>, <<DATE>>).

As term paper topic selection can be a difficult process, and lead to procrastination, I encourage you to look over the material that we will cover and select a topic for your
term paper early in the semester. Please see me to discuss your topic ideas. You should submit a 250-word (1-page double spaced) abstract together with a preliminary bibliography on our tenth meeting (<<DAY>>, <<DATE>>). Remember, deadlines are our friends.

The second mid-term, and the final test, will include only material covered since the previous test. The class session prior to each test will be spent in reviewing and discussing the material covered in the test.

Letter grades assigned will follow the standard TAMU scale: 100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, 59 and below = F. Sometimes students do not do well on a midterm. Should this happen the student will have the option to take a final exam covering all the material of the entire semester. This test will count for the final and will replace the lower of the two mid-term test grades (50 point value). Anyone wishing to take this option must register to do so no later than our last meeting (<<DAY>>, <<DATE>>). Note that this possibility should be viewed as an opportunity of last resort.

This course does not have a required attendance policy and I will not be taking attendance. Note, however, that we will be covering a great deal of material in each meeting and missing any class is likely to impact your grade because it will be difficult for you to keep up with the material. Note that I accept each student into this course as a responsible adult: the first rule of responsible adulthood is taking full responsibility for your own actions. For more details on Texas A&M University’s view on attendance, see (http://student-rules.tamu.edu/rule07).

LATE WORK
Late work will be accepted only on the basis of Student Rule 7. Please visit http://student-rules.tamu.edu/rule07 for information concerning university-excused absences.

TEXTS

THE AMERICANS WITH DISABILITIES ACT (ADA)
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Disability Services in Room B118, Cain Hall. Tel. 845-1637. Website: (http://disability.tamu.edu/).
STATEMENT ON DIVERSITY
Respect for cultural and human biological diversity are core concepts of Anthropology. In this course, each voice in the classroom has something of value to contribute to class discussion. Please respect the different experiences, beliefs and values expressed by your fellow students and instructor, and refrain from derogatory comments about other individuals, cultures, groups, or viewpoints. The Anthropology Department supports the Texas A&M University commitment to Diversity, and welcomes individuals of all ages, backgrounds, citizenships, disabilities, education, ethnicities, family statuses, genders, gender identities, geographical locations, languages, military experience, political views, races, religions, sexual orientations, socioeconomic statuses, and work experiences (See http://diversity.tamu.edu/).

ACADEMIC INTEGRITY
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SCHEDULE SPRING 2013

Week 1
(1) Tuesday ➤ Introduction I
(2) Thursday ➤ Introduction II

Week 2
(3) Tuesday ➤ Video Presentation: Napoleon’s Obsession: Quest for Egypt
(4) Thursday ➤ The Environmental Background I
Reading: (Environmental Background I-IV): Bard, *An Introduction to the Archaeology of Ancient Egypt*: 45-65.

Week 3
(5) Tuesday ➤ The Environmental Background II
(6) Thursday ➤ The Environmental Background III

Week 4
(7) Tuesday ➤ The Environmental Background IV
(8) Thursday ➤ Prehistoric Egypt
Week 5
(9) Tuesday ➢ Predynastic Egypt
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 104-120.

(10) Thursday ➢ On Writing Reports and Term Papers (250-Word Term Paper Abstracts Due)

Week 6
(11) Tuesday ➢ Mid-term examination #1 (25 points)
(12) Thursday ➢ Understanding Hieroglyphs

Week 7
(13) Tuesday ➢ The Old Kingdom (Ist-VIth Dynasties)
(14) Thursday ➢ How to Build a Pyramid

Week 8
(15) Tuesday ➢ Sneferu
(16) Thursday ➢ Video Presentation: Mummy Tech

Week 9
(17) Tuesday ➢ Khufu to the End of the Old Kingdom
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 137-152; Clayton, *Chronicle of the Pharaohs*: 45-67
(18) Thursday ➢ First Intermediate Period (VIth-Xth Dynasties)

Week 10
(19) Tuesday ➢ The Middle Kingdom (XIth-XIIth Dynasties)
(20) Thursday ➢ The Second Intermediate Period (XIIIth-XVIIth Dynasties)

Week 11
(21) Tuesday ➢ Mid-term examination #2 (25 points)
(22) Thursday ➢ The New Kingdom

**Week 12**
(23) Tuesday ➤ Hatshepsut

(24) Thursday ➤ Thutmose III-Amenhotep III

**Week 13**
(25) Tuesday ➤ The Amarna Period to the End of the XVIIIth Dynasty
Reading: Bard, *An Introduction to the Archaeology of Ancient Egypt*: 221-235; Clayton, *Chronicle of the Pharaohs*: 120-139.

(26) Thursday ➤ The XIXth Dynasty

**Week 14**
(27) Tuesday ➤ The XXth Dynasty: Invasion & Decline

(28) Thursday, ➤ Summary & Overview

Final examination: <<DAY>><<DATE>><<MONTH>><<TIME>> (25 points)

∞∞∞∞

For more about Egypt, see…

• American Research Center in Egypt (ARCE) (http://www.arce.org)
  (North Texas Chapter: P.O. Box 38642, Dallas, TX 57238)

• Egypt Exploration Society (EES) (http://www.ees.ac.uk)

• KMT: A Modern Journal of Ancient Egypt (http://www.kmtjournal.com)

• Oriental Institute, University of Chicago (http://oi.uchicago.edu)
  Pdf files of many publications on Egyptology available for free download at
  (http://oi.uchicago.edu/research/pubs/catalog/egypt.html)

• The Metropolitan Museum of Art, Egyptian Collection
  (http://www.metmuseum.org/collections/search-the-collections?ft=Egyptian)
• Petrie Museum of Egyptian Archaeology
  (http://www.ucl.ac.uk/museums/petrie)

• The British Museum, Online Collection
  (http://www.britishmuseum.org/research/collection_online/search.aspx)

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EXPLORATOR: ARCHAEOLOGICAL NEWS ON THE WEB
Read the latest Explorator on the web at:
http://www.atrium-media.com/rogueclassicism/categories/explorator
Past issues of Explorator are available on the web at:
http://groups.yahoo.com/group/Explorator/messages
To subscribe to Explorator, send a blank email message to:
mailto:Explorator-subscribe@yahoogroups.com
To unsubscribe, send a blank email message to:
mailto:Explorator-unsubscribe@yahoogroups.com
COURSE WITHDRAWAL
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments.

Form Instructions:

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

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

3. Course prefix, number and complete title of course: ESSM 460 Spatial Data Acquisition with Field Methods

4. Change requested:
   a. Prerequisite(s): From: ___________________________ To: ___________________________.
   b. Withdrawal (reason): Instructor for the class is no longer at TAMU, no one else to teach this class
   c. Cross-list with: ___________________________.

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

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

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

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

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

7. 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).

8. Attach a course syllabus.

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

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

11. a. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)
   
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)
   
   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level

   Approval recommended by:

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

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

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 8-5-8201 or swilliams3@tamu.edu.
Curricular Services – 08/14

[Signature]

[Date]
Justification for removal of ESSM 460

The instructor for this class has left TAMU and no one else is capable of teaching this class.
CHANGE IN COURSES
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and attachments

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, D/Vet)
2. Request submitted by (Department or Program Name): Department of Communication
3. Course prefix, number and complete title of course: COMM 435 Rhetoric of Television and Film

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

4. Change requested
   a. Prerequisite(s): From: ______________________ To: junior or senior classification
   b. Withdrawal (reason): ______________________
   c. Cross-list with: FILM 445 Rhetoric of Television and Film

   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:
Critical analysis of television and film; close readings of such mediated texts; special attention to writing television and film criticism

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

10. As currently in course inventory:

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Approval recommended by: Jennifer Mercier 11/15
J. Kevin Barge 11/2015
Juan Alonzo 11/2015

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

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Chair, GC or UCC Date

Effective Date

RECEIVED CURRICULAR SERVICES
Supporting Statement for Changes to COMM 435:

This request is to add the prerequisite of junior or senior classification and to cross-list with FILM 445. The change of prerequisite is requested in order to bring the course up to current standards and requirements for upper level courses and to match the requirements for FILM 445.
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 (DDE, MPs, JD, Ph.D., DVM)
2. Request submitted by (Department or Program Name):  Department of Entomology
3. Course prefix, number and complete title of course:  ENTO 291 Research

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, indicate the course number of the stacked course:  
8. I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   Credit 1 to 4.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Credit 0 to 4.

11. As currently in course inventory:
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    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
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    Prefix  Course #  Title (excluding punctuation)
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    0.00  12.00  0.00  4.00  260702  1050  0  0  3  6  3  2

Approval recommended by:
David Ragsdale  30-July-2015
Department Head or Program Chair (Type Name & Sign)  Date

Kim Dooley  8/4/15
Chair, College Review Committee  Date

Kim Dooley  8/4/15
Dean of College  Date

Submitted to Coordinating Board by:
Chair, GC or UCC  Date  Effective 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
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council

THROUGH: Dean, College of Agriculture and Life Sciences
          Chair, College of Agriculture and Life Sciences Undergraduate Curriculum Council

FROM: Dr. Pete Teel, Associate Head for Academic Program

SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
Course Description: Research conducted under the direction of a faculty member in the Department of Entomology.

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Freshman or Sophomore classification.

Required Text: None

Grading:
Student submission of research plan (10%)
Student performance during research experiment (45%)
Written summary of research experiment (45%)

Tentative schedule:

<table>
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<tr>
<th>Week</th>
<th>Activity</th>
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<td>1.</td>
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<td>9.</td>
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<td>10.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>11.</td>
<td>Conduct research experiment</td>
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<tr>
<td>12.</td>
<td>Analysis of research results and compilation of data</td>
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<tr>
<td>13.</td>
<td>Write summary of research experiment</td>
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<tr>
<td>14.</td>
<td>Submission of final version of research experiment summary</td>
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Americans with Disabilities Act (ADA) Policy
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning
environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information, visit http://disability.tamu.edu.

**Academic Integrity Statement**

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: www.tamu.edu/aggiehonor.
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:  Yes Undergraduate  No Graduate  No First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Entomology
3. Course prefix, number and complete title of course:  ENTO 484 Professional Internship

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:

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:

David Ragsdale  8/6/2015
Department Head or Program Chair (Type Name & Sig)  Date

Kim Dooley  8/14/2015
Dean of College  Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

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

RECEIVED
CURRICULAR SERVICES
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council

THROUGH: Dean, College of Agriculture and Life Sciences

THROUGH: Chair, College of Agriculture and Life Sciences and Undergraduate Curriculum Council

FROM: Dr. Pete Teel, Associate Head for Academic Program

SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
ENTO 484 Professional Internship  
Variable Credit Hours (0-4)  
Instructor: Staff

Course Description: Independent study and supervised field experience related to a professional area or interest in forensic science

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Junior or Senior classification or approval of instructor.

Required Text: None

Grading:
Student submission of internship project plan (10%)
Student performance during internship experience (45%)
Written summary of internship project (45%)

Tentative schedule:

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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Form Instructions

1. Course request type: 🔵 Undergraduate  ☐ Graduate  ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Entomology
3. Course prefix, number and complete title of course: ENTO 491 Research

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

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

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

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

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

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

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

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

9. Complete current course title and current catalog course description:
   Credit 1 to 4.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Credit 0 to 4.

11. a. As currently in course inventory:

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<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>4</td>
</tr>
</tbody>
</table>

Approval recommended by:

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

Chair, College Review Committee

Kim Dooley
Dean of College

Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Date Effective Date

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

Curricular Services – 08/14
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council

THROUGH: Dean, College of Agriculture and Life Sciences

Chair, College of Agriculture and Life Sciences Undergraduate Curriculum Council

FROM: Dr. Pete Teel, Associate Head for Academic Program

SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
ENTO 491 Research
Variable Credit Hours (0-4)
Instructor: Staff

Course Description: Research conducted under the direction of a faculty member in the Department of Entomology.

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Junior or Senior classification.

Required Text: None

Grading:
Student submission of research plan (10%)
Student performance during research experiment (45%)
Written summary of research experiment (45%)

Tentative schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to research, expectations, review of research plan</td>
</tr>
<tr>
<td>2.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>3.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>4.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>5.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>6.</td>
<td>Conduct research experiment</td>
</tr>
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<td>7.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>8.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>9.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>10.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>11.</td>
<td>Conduct research experiment</td>
</tr>
<tr>
<td>12.</td>
<td>Analysis of research results and compilation of data</td>
</tr>
<tr>
<td>13.</td>
<td>Write summary of research experiment</td>
</tr>
<tr>
<td>14.</td>
<td>Submission of final version of research experiment summary</td>
</tr>
</tbody>
</table>

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

**Academic Integrity Statement**

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: www.tamu.edu/aggiehonor.
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 Ecosystem Science and Management
3. Course prefix, number and complete title of course: ESSM 415 Range Analysis and Management Planning

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

4. Change requested
   a. Prerequisite(s): From: ESSM 314, junior or senior classification or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with: AGEC 105 or ECON 202, ESSM 314, ESSM 317, junior or senior classification or approval of instructor
   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. Approval recommended by:
   Dr. Matt Keenan
   Department Head or Program Chair (Type Name & Sign) Date

   Dr. Robert Knight
   Chair, College Review Committee Date

   Dr. Kim Dolley
   Dean of College Date

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

Submitted to Coordinating Board by:

Chair, GC or UCC Date

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 AUG 18, 2015
CURRICULAR SERVICES
Justification for removal of ESSM 415

The instructors have decided that students need both ESSM 314, ESSM 317, as well as a basic economics course to do satisfactory in the class.
Texas A&M University
Departamental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (M.D., M.D., J.D., PharmD, D.V.M.)

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

3. Course prefix, number and complete title of course:  
   ESSM 430 Advanced Restoration Ecology

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

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

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

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

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

11. a. As currently in course inventory:
   
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<thead>
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<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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   b. Change to:
   
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</table>

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

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

Submitted to Coordinating Board by:

Associate Director, Curricular Services

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

RECEIVED CURRICULAR SERVICES
Justification for ESSM 430

Both ESSM 320 and 420 need to be prerequisites for ESSM 430 for students to do well in this class.
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, DVR)
2. Request submitted by (Department or Program Name): Department of Ecosystem Science and Management
3. Course prefix, number and complete title of course: ESSM 459 Spatial Databases and Programming

4. Change requested
   a. Prerequisite(s): From: [ ] Junior or senior classification or approval of instructor. To: ESSM 351 or equivalent, Junior or senior classification or approval of instructor.
   b. Withdrawal (reason): ____________________________
   c. Cross-list with: ____________________________

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? [ ] Yes  [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade  [ ] S/U  [ ] P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://apc.tamu.edu/resources/export-contrats/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   Spatial Databases and Programming. Computational tools for creating new data, sharing, integrating that data with other databases; conducting analyses and interpretation of information ranging from spreadsheets to advanced scientific workflow processing systems; tools to create higher quality, more useful data.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Programming for Spatial Data Applications. Programming for spatial data applications in general and for natural resources application in particular; basic programming concepts and constructs for the creation and manipulation of spatial data; automating of processes; programming behind spreadsheet and GIS applications.

10. As currently in course inventory:
    Prefix  Course #  Title (excluding punctuation)
    ESSM  459  SPATIAL DATABASES & PROG
    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
    2.00  3.00  3.00  4507020006  0841  0 0 3 6 3 2 4

b. Change to:
    Prefix  Course #  Title (excluding punctuation)
    ESSM  459  PROGRAM FOR SPATIAL DATA APPS
    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code  Level
    2.00  3.00  3.00  4507020006  0841  16 - 17 0 0 3 6 3 2

   Level: 4

Approval recommended by:
Dr. Mark Conner
Department Head or Program Chair (Type Name & Sign)
Department Head or Program Chair (Type Name & Sign) (if cross-listed course)

Date

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

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

RECEIVED
AUG 1 2015
CURRICULAR SERVICES
Justification for change of ESSM 459

The instructors have decided that students need both ESSM 351 to do satisfactory in the class.
Form Instructions:

1. Course request type:  
   - Undergraduate  
   - Graduate  
   - First Professional (DDS, M.D., J.D., PharmD, DVM)

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

3. Course prefix, number and complete title of course:  
   - ESSM 464 Spatial Project Management

4. Change requested:  
   a. Prerequisite(s): From:  
      ESSM 351 and ESSM 444, junior or senior classification or approval of instructor. 
   b. Withdrawal (reason):  
   c. Cross-list with:

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

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

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

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

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

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

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

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

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

11. As currently in course inventory:

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<tr>
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<td>Other</td>
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<tr>
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</tbody>
</table>

Approval recommended by:
- Dr. Matt Kommrn
- Department Head or Program Chair (Type Name & Sign)
- 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 – 06/14
Justification ESSM 464

The instructors have decided they need to specify ESSM 351 and ESSM 444 as prerequisites.
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, PhD, J.D., Pharm.D., DVM)
2. Request submitted by (Department or Program Name):  
   Department of Entomology
3. Course prefix, number and complete title of course:  
   FIVS 291 Research

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

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

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

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

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

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

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:
   Credit 1 to 4.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Credit 0 to 4.

11. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation) |
   --- | --- | --- |
   FIVS  | 291 | Research |

   Lecture | Lab | Other | SCh | CIP and Fund Code | Admin. Unit | FICE Code | Level |
   ------- | --- | ------ | ---- | ----------------- | ------------ | ---------- | ----- |
   0.00    | 12.00 | 0.00   | 4.00 | 430106           | 1050         | 0 0 3 6 3 2 | Level 2 |

   b. Change to:

   Prefix | Course # | Title (excluding punctuation) |
   --- | --- | --- |
   FIVS  | 291 | Research |

   Lecture | Lab | Other | SCh | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |
   ------- | --- | ------ | ---- | ----------------- | ------------ | ---------- | ---------- | ----- |
   0.00    | 12.00 | 0.00   | 4.00 | 430106           | 1050         | 16 - 17    | 0 0 3 6 3 2 | Level 2 |

Approval recommended by:

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

Chair, College Review Committee  
Kim Dooley  
Dean of College  

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

Submitted to Coordinating Board by:

Associate Director, Curricular Services  

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  
Curricular Services – 08/14
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council

THROUGH: Dean, College of Agriculture and Life Sciences
          Chair, College of Agriculture and Life Sciences Undergraduate Curriculum Council

FROM: Dr. Pete Teel, Associate Head for Academic Program

SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
Course Description: Research conducted under the direction of a faculty member in the Department of Entomology.

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Freshman or Sophomore classification.

Required Text: None

Grading:
- Student submission of research plan (10%)
- Student performance during research experiment (45%)
- Written summary of research experiment (45%)

Tentative schedule:

Week | Activity
--- | ---
1. | Introduction to research, expectations, review of research plan
2. | Conduct research experiment
3. | Conduct research experiment
4. | Conduct research experiment
5. | Conduct research experiment
6. | Conduct research experiment
7. | Conduct research experiment
8. | Conduct research experiment
9. | Conduct research experiment
10. | Conduct research experiment
11. | Conduct research experiment
12. | Analysis of research results and compilation of data
13. | Write summary of research experiment
14. | Submission of final version of research experiment summary

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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   ☑ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DHSc)

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

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

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

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

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

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

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

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

7. If this course will be stacked, 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:
   Credit 1 to 4

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Credit 0 to 4

11. a. As currently in course inventory:

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   b. Change to:

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<td>Level 4</td>
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Approval recommended by:
David Ragsdale
Department Head or Program Chair (Type Name & Sign) Date 8/16/15

Kim Doolley
Chair, College Review Committee Date 8/14/15

Dean of College

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

Associate Director, Curricular Services

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

RECEIVED AUG 18 2015 CURRICULAR SERVICES
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council
THROUGH: Dean, College of Agriculture and Life Sciences
Chair, College of Agriculture and Life Sciences Undergraduate Curriculum Council
FROM: Dr. Pete Teel, Associate Head for Academic Program
SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
FIVS 484 Professional Internship
Variable Credit Hours (0-4)
Instructor: Staff

Course Description: Independent study and supervised field experience related to a professional area or interest in forensic science

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Junior or Senior classification or approval of instructor.

Required Text: None

Grading:
Student submission of internship project plan (10%)
Student performance during internship experience (45%)
Written summary of internship project (45%)

Tentative schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to company, expectations, review of internship project plan</td>
</tr>
<tr>
<td>2.</td>
<td>Conduct internship project</td>
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<td>3.</td>
<td>Conduct internship project</td>
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<td>10.</td>
<td>Conduct internship project</td>
</tr>
<tr>
<td>11.</td>
<td>Conduct internship project</td>
</tr>
<tr>
<td>12.</td>
<td>Analysis of internship project results and compilation of data</td>
</tr>
<tr>
<td>13.</td>
<td>Write summary of internship project</td>
</tr>
<tr>
<td>14.</td>
<td>Submission of final version of internship project summary</td>
</tr>
</tbody>
</table>

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

**Academic Integrity Statement**

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: www.tamu.edu/aggiehonor.
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 Entomology
3. Course prefix, number and complete title of course: FIVS 491 Research

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

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

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

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

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

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

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

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

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

   Credit 1 to 4

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

   Credit 0 to 4

10. As currently in course inventory:

    Prefix  Course #  Title (excluding punctuation)
    FIVS     491    Research

    Lect.  Lab  Other  SCI  CIP and Fund Code  Admin. Unit  FICE Code  Level
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    b. Change to:

    Prefix  Course #  Title (excluding punctuation)
    FIVS     491    Research

    Lect.  Lab  Other  SCI  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code  Level
    0.00   12.00  0.00  4.00   430106  1050  16   17  0  0  3  6  3  2

    Approval recommended by:

    Department Head or Program Chair

    Date

    Submitting Chair, College Review Committee

    Date

    Department Head or Program Chair (Type Name & Sign)

    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
    CURRICULAR SERVICES
June 1, 2015

MEMORANDUM

TO: Chair, Undergraduate Curriculum Council

THROUGH: Dean, College of Agriculture and Life Sciences
          Chair, College of Agriculture and Life Sciences Undergraduate Curriculum Council

FROM: Dr. Pete Teel, Associate Head for Academic Program

SUBJECT: Modification to Variable Credit for ENTO/FIVS 291/484/491 Courses

We respectfully submit that the following courses be modified from their current variable credit availability of 1-4 credits to 0-4 credits.

ENTO 291 Research
FIVS 291 Research
ENTO 484 Professional Internship
FIVS 484 Professional Internship
ENTO 491 Research
FIVS 491 Research

This modification in registration ability will allow students who have already completed their curricular requirement of either their Professional Internship or Research experience to continue documented high impact experiences through registration of zero credit hours without the fiscal impact of added credit hour expense.

Please contact me if there are any questions or issues with this request. Thank you.
FIVS 491 Research
Variable Credit Hours (0-4)
Instructor: Staff

Course Description: Research conducted under the direction of a faculty member in the Department of Entomology.

Course Learning Outcomes:
- To recognize the scientific method and apply it to a problem/situation.
- To describe problem-solving principles and organize typical operational protocols used in forensic science.
- To summarize and illustrate results from an experiment in a written, scientific manner.

Prerequisites: Junior or Senior classification.

Required Text: None

Grading:
Student submission of research plan (10%)
Student performance during research experiment (45%)
Written summary of research experiment (45%)

Tentative schedule:

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<th>Week</th>
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Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate + Graduate + Professional  
Submit original form and attachments 

Form Instructions

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

2. Request submitted by (Department or Program Name):  
   Department of Nutrition and Food Science

3. Course prefix, number and complete title of course:  
   NUTR 430 Community Nutrition

4. Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below:
   Change requested:  
   a. Prerequisite(s):  
      From:  
      To:  
   b. Withdrawal (reason):  
   c. Cross-list with:  
   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  
   - [X] 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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<th>Level</th>
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<td>3</td>
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   b. Change to:
   
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<td>3</td>
<td>6</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

   Approval recommended by:  
   Boon Chew  
   Date: 8/12/15
   Department Head or Program Chair (Type Name & Sign)

   Chair, College Review Committee  
   Date: 8/14/18
   Dean of College  
   Date: 8/14/15

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

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
The Department of Nutrition and Food Science is seeking to add a lower level undergraduate course, NUTR 301 – Nutrition Through Life, as a prerequisite to NUTR 430 – Community Nutrition. Both of these courses are required for degree completion. Faculty have determined that 301 course content taken previous to 430 will better serve students when taking 430. 430 is a Writing Intensive course and much of the information included in 430 is subsequent to 301 content rather than co-requisite. This action will assist NFSC with core NUTR course sequencing which will assist also with enrollment management.
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 Oceanography (OCNG)
3. Course prefix, number and complete title of course: OCNG-410: Introduction to Physical Oceanography

4. Change requested:
   a. Prerequisite(s): From: MATH 308; junior or senior classification. To: MATH 152; junior or senior classification.
   b. Withdrawal (reason):
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

5. Is this an existing core curriculum course?
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade S/U ☑ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   ✗ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

9. Complete current course title and current catalog course description:
Introduction to Physical Oceanography (3-0). Credit 3. Elements of the physics of the sea; descriptive aspects as well as cause and effect relations in respect to currents, thermal structure and waves. Intended for majors in the physical sciences or engineering.
Prerequisites: MATH 308; junior or senior classification.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
Physical Oceanography (3-0). Credit 3. Elements of the physics of the sea; descriptive aspects as well as cause and effect relations in respect to currents, thermal structure and waves. Intended for majors in the physical sciences or engineering.
Prerequisites: MATH 152; junior or senior classification.

11. a. As currently in course inventory:

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<tr>
<th>Prefix</th>
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<td>Introduction to Physical Oceanography</td>
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Level 4

b. Change to:

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Level 4

Approval recommended by:

Department Head or Program Chair (Type Name & Sign)  8/13/15

Chair, College Review Committee  8/13/15

Dean of College  8/13/15

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

Received AJS 18 2015 CURRICULAR SERVICES
COLLEGE OF GEOSCIENCES
DEPARTMENT OF OCEANOGRAPHY

4 August 2015

MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
          AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
      Department Head
      Department of Oceanography

RE: Changes in OCNG 410, OCNG 420, OCNG 430 and OCNG 440

OCNG 410, OCNG 420, OCNG 430 and OCNG 440 are the core science classes for the
Oceanography minor. They are all upper level classes requiring prior course work. Therefore,
we request a change in name for all of these course to better reflect that level of work. We
request to remove the words “Introduction to” from all of the course titles. Please see the
attached change request forms.

We request an additional change to OCNG 410. The MATH pre-requisite should be MATH 152
and not MATH 308. Please see the attached change request form.

If you have any questions, please contact our academic advisor, Andrea Dawson (979-845-7688;
andil2008@geos.tamu.edu).

O&M Building, Room 1204
3146 TAMU
College Station, TX 77843-3146
Tel. 979.845.7211 Fax 979.845.6331
Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate • Graduate • Professional  
Submit original form and attachments

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

2. Request submitted by (Department or Program Name):  
   Department of Oceanography (OCNG)

3. Course prefix, number and complete title of course:  
   OCNG-420: Introduction to Biological Oceanography

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

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

   d. Change in course title and description. Enter complete current course title and
current course description in item 5; enter proposed
course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

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

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

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

8. Complete current course title and current catalog course description:  
   Introduction to Biological Oceanography (3-0). Credit 3. Biological aspects of the marine environment; marine organisms; productivity of the sea; marine pollution and fouling; use of the sea. 
   Prerequisites: BIOL 112 or OCNG 251; junior or senior classification.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):  
   Biological Oceanography (3-0). Credit 3. Biological aspects of the marine environment; marine organisms; productivity of the sea; marine pollution and fouling; use of the sea. 
   Prerequisites: BIOL 112 or OCNG 251; junior or senior classification.

10. a. As currently in course inventory:  
   
   b. Change to:  

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

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

   Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@exemail.tamu.edu
   Curricular Services – 07/14
MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
Department Head
Department of Oceanography

RE: Changes in OCNG 410, OCNG 420, OCNG 430 and OCNG 440

OCNG 410, OCNG 420, OCNG 430 and OCNG 440 are the core science classes for the Oceanography minor. They are all upper level classes requiring prior course work. Therefore, we request a change in name for all of these course to better reflect that level of work. We request to remove the words “Introduction to” from all of the course titles. Please see the attached change request forms.

We request an additional change to OCNG 410. The MATH pre-requisite should be MATH 152 and not MATH 308. Please see the attached change request form.

If you have any questions, please contact our academic advisor, Andrea Dawson (979-845-7688; andi2008@geos.tamu.edu).
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

Form Instructions
1. Course request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by: (Department or Program Name): Department of Oceanography (OCNG)
3. Course prefix, number and complete title of course: OCNG-430: Introduction to Geological Oceanography
4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with:

5. Is this an existing core curriculum course? ☑ Yes ☐ No
6. If grade type is changing for existing course, indicate the new grade type: ☑ Grade ☐ S/U ☐ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:

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

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

   Introduction to Geological Oceanography (3-0). History of Oceanography; physiographic provinces of the oceans, their origins and sediments; geological sampling techniques and geophysical methods; coasts and beaches, paleoceanography; global tectonics.
   Prerequisites: OCNG 251 or OCNG 401 or GEOL 101 or GEOL 104 or GEOG 203; junior or senior classification.

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

   Geological Oceanography (3-0). Credit 3. History of Oceanography; physiographic provinces of the oceans, their origins and sediments; geological sampling techniques and geophysical methods; coasts and beaches, paleoceanography; global tectonics.
   Prerequisites: OCNG 251 or OCNG 401 or GEOL 101 or GEOL 104 or GEOG 203; junior or senior classification.

10. Changes in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6.

11. a. As currently in course inventory:

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   b. Change to:

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<th>Other</th>
<th>SCH</th>
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   Approval recommended by:

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

   Chair, College Review Committee Date

   Dean of College Date

   Submitted to Coordinating Board by:

   Chair, GC or UCC Date

   Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
4 August 2015

MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
Department Head
Department of Oceanography

RE: Changes in OCNG 410, OCNG 420, OCNG 430 and OCNG 440

OCNG 410, OCNG 420, OCNG 430 and OCNG 440 are the core science classes for the Oceanography minor. They are all upper level classes requiring prior course work. Therefore, we request a change in name for all of these course to better reflect that level of work. We request to remove the words “Introduction to” from all of the course titles. Please see the attached change request forms.

We request an additional change to OCNG 410. The MATH pre-requisite should be MATH 152 and not MATH 308. Please see the attached change request form.

If you have any questions, please contact our academic advisor, Andrea Dawson (979-845-7688; andi2008@geos.tamu.edu).
Texas A&M University
Departmental Request for a Change in Course
Undergraduate  Graduate  Professional
* Submit original form and attachments *

Form Instructions
1. Course request type:  [ ] Undergraduate  [ ] Graduate  [ ] First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Oceanography (OCNG)
3. Course prefix, number and complete title of course: OCNG-440: Introduction to Chemical Oceanography

Attach a brief supporting statement for changes made to items 4a thru 4d and 6 below.

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

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

d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

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

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

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

8. Complete current course title and catalog course description:

   Introduction to Chemical Oceanography (3-0). Credit 3. Chemical aspects of the marine environment; biogeochemical cycles of organic and inorganic constituents; primary productivity, the carbon dioxide system, nutrient cycles, stable and radioactive isotopes in the sea.

   Prerequisites: CHEM 102 or CHEM 104; junior or senior classification; sophomore with approval of instructor.

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

   Chemical Oceanography (3-0). Credit 3. Chemical aspects of the marine environment; biogeochemical cycles of organic and inorganic constituents; primary productivity, the carbon dioxide system, nutrient cycles, stable and radioactive isotopes in the sea.

   Prerequisites: CHEM 102 or CHEM 104; junior or senior classification; sophomore with approval of instructor.

10. Approval recommended by:

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

    Chair, College Review Committee  Date

    Dean of College  Date

    Submitted to Coordinating Board by:

    Chair, GC or UCC  Date

    Associate Director, Curricular Services  Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams.tamu.edu
Curricular Services – 07/14
4 August 2015

MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
Department Head
Department of Oceanography

RE: Changes in OCNG 410, OCNG 420, OCNG 430 and OCNG 440

OCNG 410, OCNG 420, OCNG 430 and OCNG 440 are the core science classes for the Oceanography minor. They are all upper level classes requiring prior course work. Therefore, we request a change in name for all of these course to better reflect that level of work. We request to remove the words “Introduction to” from all of the course titles. Please see the attached change request forms.

We request an additional change to OCNG 410. The MATH pre-requisite should be MATH 152 and not MATH 308. Please see the attached change request form.

If you have any questions, please contact our academic advisor, Andrea Dawson (979-845-7688; andi2008@geos.tamu.edu).
Texas A&M University
Departmental Request for a Change in Course
Undergraduate □ Graduate □ Professional
Submit original form and attachments

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Psychology
3. Course prefix, number and complete title of course: PSYC 485 Directed Studies

4. Change requested:
   a. Prerequisite(s) From: approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course? □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (YN)
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:
   PSYC 485: Directed Studies. Credit 0 to 3. Directed readings or research problems in selected areas designed to supplement existing course offerings. Individual report required.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    PSYC 485: Directed Studies. Credit 0 to 3. Directed readings or research problems in selected areas designed to supplement existing course offerings. May be repeated for credit.

11. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation) |
   ------ | -------- | ----------------------------- |
   PSYC   | 485     | Directed Studies              |

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | HIC Code | Level |
   ------ | ---- | ----- | ---- | ----------------- | ------------ | -------- | ------ |
   3     | 0   | 0     | 3   | 9201010001        | 2.380        | 0 3 6 3 2 | 4     |

   b. Change to:

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

   Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | HIC Code |
   ------ | ---- | ----- | ---- | ----------------- | ------------ | ---------- | -------- |
         |      |       |     |                   |              |            |          |

   Approval recommended by:
   Douglas Woods 8/10/15

   Department Head or Program Chair (Type Name & Sign) Date
   Nancy J. Strege 8/17/15
   Chair, College Review Committee Date
   Dean of College 8/10/15
   Date

   Submitted to Coordinating Board by:
   Chair, GC or UCC

   Date
   Effectivity Date
   Received CURRICULAR SERVICES AUG 21, 2015

Questions regarding this form should be directed to Sandra Williams at 845-8301 or sandra.williams@wisc.edu.
Curricular Services – 08/14
Supporting Statement for Changes to PSYC 485

- The changes to the prerequisites will permit students who are not psychology majors to participate in research with psychology faculty
- The changes to the course description are consistent with the conceptualization of PSYC485 as an introductory research experience for undergraduates. The course is graded as satisfactory/unsatisfactory, and does not necessarily require a written research report.
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, J.E. PharmD, DVM)
2. Request submitted by (Department or Program Name):  
   Department of Psychology
3. Course prefix, number and complete title of course:  
   PSYC 491 Research

4. Change requested
   a. Prerequisite(s): From: PSYC 484 or PSYC 485; junior or senior classification; approval of instructor
   To: PSYC 484 or PSYC 485; approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:

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

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

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

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. Personal Signature

9. Complete current course title and current catalog course description:
   PSYC 491: Research. Credit 0 to 3. Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and weekly presentation of student research projects. May be repeated for credit.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    PSYC 491: Research. Credit 0 to 3. Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and presentation of student research projects. May be repeated for credit.

11. a. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)
   PSYC  491  Research

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   3  0  0  3  42010100  2380  0  3  6  3  3  2

b. Change to:

   Prefix  Course #  Title (excluding punctuation)

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   Approval recommended by:  
   Date

   Department Head or Program Chair (Type Name & Sign)  

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

   Chair, College Review Committee  
   Date

   Dean of College  
   Date

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services  •  08/14
Supporting Statement for Changes to PSYC 491

- The changes to the prerequisites will permit students to begin advanced research projects early in their academic careers, as freshmen or sophomores.
- The changes to the course description are consistent with the conceptualization of PSYC491 as an advanced research experience for undergraduates, which involves working on at least one research project.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments.

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

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

3. Course prefix, number and complete title of course:
   RENR 410 Ecosystem Management

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

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

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

8. Controls Export Controls Basics for Distance Education (http://cpr.tamu.edu/resources/export-controls-export-controls-basics-for-distance-education).

9. Attach a brief supporting statement for changes made to items 4a through 8d. and 10 below.

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

11. a. As currently in course inventory:
    Prefix | Course # | Title (excluding punctuation) |
    ----- | ------- | ----------------------------- |
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    | | | | | | | |

    b. Change to:
    Prefix | Course # | Title (excluding punctuation) |
    ----- | ------- | ----------------------------- |
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |
    | | | | | | | | |

   Approval Recommended by:
   Dr. [Name]
   Department Head or Program Chair (Type Name & Sign)
   Date

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

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

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

   Effective Date
   CURRICULAR SERVICES

   RECEIVED
   AUG 18 2015
Justification for removal of RENR 410

The instructor has decided that students need to have RENR 205 to do satisfactory in his class.
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

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

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

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

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

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

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

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

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

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

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match. ☒ Yes  □ No

7. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? □ Yes  ☒ No

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

7. c. If yes, is the Texas Higher Education Coordinating Board form attached? ☒ Yes  □ No
   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBF01D60

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

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

Approval recommended by:

Dr. Mort Kohlmann  1/23/15  Date
Department Head or Program Chair (Type Name & Sign)

Dr. Robert Knight  1/6/15  Date
Chair, College Review Committee

Dr. Kim Dooley  8/14/15  Date
Dean of College

Dr. Tim Scott  8/14/15  Date
Chair, GC or UCC

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 07/12
Proposed Curriculum in
Forestry

Catalog 16-17

University Core Curriculum

Required Courses

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<th>Course</th>
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<td>AGEC 105 Introduction to Agricultural Economics</td>
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<td>BIOL 101 Botany</td>
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| or
| BIOL 113 Essentials of Biology                                         |         |    |
| HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Prac. Lab | (3-3)   | 4  |
| CHEM 101 and 111 Fundamentals of Chemistry I and Lab                   | (3-3)   | 4  |
| RENR 215 Fundamentals of Ecology Lab                                   | (0-3)   | 1  |
| American History electives                                              |         | 6  |
| Communication electives                                                |         | 6  |
| Creative Arts elective                                                 |         | 3  |
| Government/Political Science electives                                |         | 6  |
| Language, Philosophy and Culture elective                              |         | 3  |
| Mathematics electives (MATH prefix required)                           |         | 6  |
|                                                                     |         |    |
|                                                                     |         | 42 |

Ecosystem Science and Management

Core Courses

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<th>Course</th>
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<tr>
<td>ESSM 201 Exploring Ecosystem Science and Management</td>
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<tr>
<td>ESSM 301 Wildland Watershed Management</td>
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<tr>
<td>ESSM 306 Plant Functional Ecology and Adaptation</td>
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| or
| ESSM 311 Biogeochemistry and Global Change                            | (3-0)   |    |
| ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems        | (2-2)   | 3  |
| ESSM 351 Geographic Information Systems and Resource Management       | (2-2)   | 3  |
| ESSM 481 Senior Seminar                                               | (1-0)   | 1  |
| RENR 205 Fundamentals of Ecology                                     | (3-0)   | 3  |
| SCSC 301 Soil Science                                                 | (3-2)   | 4  |
|                                                                     |         |    |
|                                                                     |         | 21 |
Forestry Core Courses

AGEC 350 Environmental and Natural Resource Economics 1 .................................................. (3-0) 3
ESSM 203 Forest Trees of North America ................................................................................. (2-2) 3
ESSM 300 Field Studies in Forest Ecosystems ........................................................................... (1-6) 3
ESSM 307 Forest Protection ......................................................................................................... (2-2) 3
ESSM 309 Forest Ecology ........................................................................................................... (3-0) 3
ESSM 310 Forest Tree Improvement and Regeneration ............................................................... (3-0) 3
ESSM 319 Principles of Forestry .................................................................................................. (3-3) 4
ESSM 324 Forest Measurements ................................................................................................ (2-2) 3
ESSM 405 Forest Resource Assessment and Management (W) .............................................. (1-4) 3
ESSM 406 Natural Resources Policy .......................................................................................... (3-0) 3
Directed electives 1.................................................................................................................. 20
Free electives ........................................................................................................................... 6

Total hours for the Forestry Degree 120

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

2015-2016

Ecosystem Science and Management Core Courses

AGEC 350  Environmental and Natural Resource Economics  3
ESSM 201  Exploring Ecosystem Science and Management  1
ESSM 301  Wildland Watershed Management  3
ESSM 302  Wildland Plants of North America  3
ESSM 306  Plant Functional Ecology and Adaptation  3
ESSM 311  Biogeochemistry and Global Change  3
ESSM 313  Vegetation Sampling Methods and Designs in Ecosystems  3
ESSM 318  Coupled Social and Ecological Systems  3
ESSM 320  Ecosystem Restoration and Management  3
ESSM 351  Geographic Information Systems for Resource Management  3
ESSM 406  Natural Resources Policy  3

or RENR 470 or Environmental-Impact Assessment

ESSM 481  Senior Seminar  1
REN 205  Fundamentals of Ecology  3
SCSC 301  Soil Science  4

Forestry Core Courses

ESSM 203  Forest Trees of North America  3
ESSM 300  Field Studies in Forest Ecosystems  3
ESSM 307  Forest Protection  3
ESSM 309  Forest Ecology  3
ESSM 319  Principles of Forestry  3
ESSM 405  Forest Resource Assessment and Management (W)  3

Directed electives 1  9

Free electives 11

University Core Curriculum

AGEC 105  Introduction to Agricultural Economics  3
BIOL 101  Botany  4

or BIOL 113 or Essentials in Biology

CHEM 101  Fundamentals of Chemistry I  3
& CHEM 111 and Fundamentals of Chemistry Laboratory I  4

REN 215  Fundamentals of Ecology-Laboratory  1

American history elective 2  6
Communication elective 2  6
Creative arts elective 2  3
Government/Political science elective 2,3  6
Language, philosophy and culture elective 2  3
Mathematics elective (MATH prefix required)  6
Total Semester Credit Hours

1 To be selected in consultation with an advisor.

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

3 Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.
Detail Requirements

Information for Degree Evaluation
This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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This is NOT an official evaluation.

Area: Major Coursework (39,000 credits) - Not Met

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unofficial evaluation

**Area : Supporting Coursework (19.000 credits) - Not Met**

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<td>AND</td>
<td>C.</td>
<td>ESSM</td>
<td>203</td>
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<td>AND</td>
<td>C.</td>
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<td>300</td>
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<td>AND</td>
<td>C.</td>
<td>ESSM</td>
<td>309</td>
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<td>AND</td>
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<td>ESSM</td>
<td>405 (writing intensive)</td>
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unofficial evaluation

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

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<th>Required Courses</th>
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<th>Course Title</th>
<th>Attribute</th>
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<tr>
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<td>Directed Electives Shrs</td>
<td>20</td>
<td>To be chosen in consultation with academic advisor.</td>
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unofficial evaluation

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

Total Credits and GPA 0.000 .00

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

7/29/2015
**Detail Requirements**

<table>
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<th>No</th>
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<th>Low High Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute</th>
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<th>Grade Source</th>
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<td>Communication Requirement</td>
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<td>Select 6 hours from any courses with the Communication attribute [KCOM].</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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

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<th>Condition</th>
<th>Rule Subject Attribute</th>
<th>Low High Required Credits</th>
<th>Required Courses</th>
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<td>A.</td>
<td>Mathematics Rqmt I 3hrs</td>
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<td>Select from any course with the Mathematics attribute [KMTH].</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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

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<th>Required Courses</th>
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<tr>
<td></td>
<td>A.</td>
<td>CHEM 101, 111 4hrs</td>
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<td></td>
<td></td>
<td>Take CHFM 101, 111.</td>
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<td></td>
<td>AND</td>
<td>B.</td>
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<td></td>
<td></td>
<td>BIOL 101 or BIOL 113 and 123</td>
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<td>OR HORT 20 (and 20T)</td>
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<td>RENR 215</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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

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<th>Condition</th>
<th>Rule Subject Attribute</th>
<th>Low High Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute</th>
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<th>Grade Source</th>
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<tr>
<td></td>
<td>A.</td>
<td>Language, Phil, Culture Rqmt 3hrs</td>
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<td></td>
<td></td>
<td>Select any course with the Language, Philosophy and Culture attribute [KLPC].</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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

7/29/2015
**Unofficial Evaluation**

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

<table>
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<tr>
<th>No</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
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<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
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<td>A.</td>
<td>Creative Arts</td>
<td>Requirement</td>
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</table>

Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA  0.000 .00

**Unofficial Evaluation**

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

<table>
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<th>No</th>
<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
<th>Course Title</th>
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<th>Credits</th>
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<tr>
<td></td>
<td>A.</td>
<td>AGEC 105</td>
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</tbody>
</table>

Total Credits and GPA  0.000 .00

**Unofficial Evaluation**

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

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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

<table>
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<th>B.</th>
<th>Political Science</th>
<th>Rqnt 6hrs</th>
<th>Take POLS 206 and POLS 207.</th>
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Total Credits and GPA  0.000 .00

**Unofficial Evaluation**

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

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<th>Attribute</th>
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<th>Required Credits</th>
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<td>General Electives</td>
<td>1hrs</td>
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Select from any course 100-499 not used elsewhere.
unofficial evaluation

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<th>Area :</th>
<th>Work Not Applied - Met</th>
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<td>Description :</td>
<td>See advisor for acceptable substitutions.</td>
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<th>Condition Rule Subject Attribute Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
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<td>A. Courses not applied</td>
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unofficial evaluation

<table>
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<tr>
<th>Area :</th>
<th>University Writing Requirement - Not Met</th>
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<td>Met</td>
<td>Condition Rule Subject Attribute Low High</td>
</tr>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
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</table>

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

unofficial evaluation

<table>
<thead>
<tr>
<th>Area :</th>
<th>Int'l &amp; Cult Diversity - Not Met</th>
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<tbody>
<tr>
<td>Met</td>
<td>Condition Rule Subject Attribute Low High</td>
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<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr</td>
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Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

unofficial evaluation

<table>
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<th>Foreign Language - Not Met</th>
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<td>Residence</td>
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unofficial evaluation

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<tr>
<th>Area</th>
<th>Description</th>
<th>Met</th>
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<tr>
<td>GPR-Major</td>
<td>A minimum GPR of 2.000 is required in all major field of studies courses.</td>
<td>A. Major GPR 3 hrs Includes ESSM 100-499, RENR 205, 215, 410.</td>
</tr>
</tbody>
</table>

unofficial evaluation

Back to Display Options
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT
MINOR IN FORESTRY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   - ☑ Undergraduate
   - ☐ Graduate
   - ☐ First Professional (ex. DVM, JD, MD, etc.)

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

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

4. Program Designation and Name:
   Minor in Forestry

5. Brief description of change:
   Deleting capstone course as required and adding new courses.

6. Rationale for change:
   The faculty decided that minors do not have adequate background for the capstone course. We are adding proposed new courses to the minor selection list.

7. Use the checkboxes below to make sure that all information is included.
   a. Proposed curriculum attached. ☑ Yes ☐ No
   b. Current catalog curriculum with handwritten edits attached. ☑ Yes ☐ No
   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

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

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

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

Approval recommended by:

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

Dr. Robert Knight
Chair, College Review Committee Date

Dr. Kim Dooley
Dean of College Date

Dr. Tim Scott
Chair, GC or UCC Date

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

RECEIVED
AUG 18 2015
CURRICULAR SERVICES
Forestry Minor Current Catalog

Required Courses
ESSM 203  Forest Trees of North America  3
ESSM 309  Forest Ecology  3
ESSM 319  Principles of Forestry  4
ESSM 405  Forest Resource Assessment and Management  3

Elective Courses
Select one of the following:
ESSM 300  Field Studies in Forest Ecosystems  3
ESSM 301  Wildland Watershed Management  4
ESSM 307  Forest Protection  3
ESSM 406  Natural Resources Policy  4

Total Semester Credit Hours 16

Students must make a grade of "C" or better in all courses.

Minimum of 15 hours required.
Current

Minor Field of Study
in
Forestry

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

Select 15 hours from the following courses:

<table>
<thead>
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<th>Course</th>
<th>Hours</th>
<th>Requirement</th>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ESSM 203</td>
<td>3</td>
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<td>ESSM 300</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 309</td>
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<td>required</td>
<td>ESSM 301</td>
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</tr>
<tr>
<td>ESSM 319</td>
<td>4</td>
<td>required</td>
<td>ESSM 307</td>
<td>3</td>
</tr>
<tr>
<td>ESSM 405</td>
<td>3</td>
<td>required</td>
<td>ESSM 406</td>
<td>3</td>
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</table>

-Students are required to take ESSM 203, ESSM 309, and ESSM 319 as part of the minor program.

A capstone course of ESSM 405 is required as part of the minor.

-Minimum of 15 hours required

-Must maintain a 2.0 or above in minor curriculum.

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

**Minor Field of Study**

**in**

**Forestry**

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

Select 18 hours from the following courses:

<table>
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<th>Hours</th>
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<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>ESSM 300</td>
<td>3</td>
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<td>ESSM 313</td>
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<td>ESSM 301</td>
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<td>ESSM 309</td>
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<td>ESSM 324</td>
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<td>required added new course</td>
<td>ESSM 310</td>
<td>3</td>
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<td>ESSM 405</td>
<td>3</td>
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<td></td>
<td></td>
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<td>ESSM 406</td>
<td>3</td>
</tr>
</tbody>
</table>

- Students are required to take ESSM 203, 313, 319 and ESSM 324 as part of the minor program.
- Minimum of 18 hours required
- Must maintain a 2.0 or above in minor curriculum.

**Note:** RENR 205/215 and BIOL (any course) are prerequisites for several of the classes required for the minor in Forestry. Students must satisfy these prerequisites or have approval from the instructor prior to taking a class.
**Area:** Forestry Minor (15.000 credits) - Not Met

**Description:** No grade below a ‘C’ is acceptable.

<table>
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<tr>
<th>Met</th>
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<th>Subject</th>
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<td>ESSM 309</td>
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**unofficial evaluation**

**Total Credits and GPA** | 0.000 | .00 |
CHANGE IN CURRICULUM

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
DEPARTMENT OF ENTOMOLOGY
MINOR IN ENTOMOLOGY
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, kD, etc.)

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

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

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

4. Brief description of change:
1. Add ENTO 201 OR ENTO 208 as requirement; 2. Delete ENTO 313 from selection; 3. Add ENTO 322 as selection (choose from ENTO 301 or 322); 4. Remove ENTO 322 from Directed Elective selection

5. Rationale for change:
Modifying minor to require prerequisite(s) for upper-division courses. ENTO 313 will not longer be offered and ENTO 322 will be offered as an option for students in its place within the minor.

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

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

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

c. Current Howdy degree evaluation with handwritten edits attached.  ✔Yes  ☐No

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

7. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☐Yes  ✔No

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

c. If yes, is the Texas Higher Education Coordinating Board form attached?  http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBF91D60  ☐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-DC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

David Rappaport  8/14/2015
Department Head or Program Chair (Type Name & Sign)

Kim Dooley  8/14/2015
Dean of College

Chair, College Review Committee  8/26/2015

Chair, GC or UCC  8/14/2015

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.willey@tamu.edu
Curricular Services - 06/14
Minor in Entomology
Offered by
The Department of Entomology
College of Agriculture and Life Sciences

The minor in Entomology is available to all students enrolled at Texas A&M University. The courses listed below constitute the minimum 17 hours required for a minor in Entomology.

A GRADE OF ‘C’ OR BETTER IN EACH COURSE USED FOR THE MINOR IS REQUIRED.

A. Core Courses (8-9 hours):

1. ENTO 201 General Entomology 3 Credit Hours, OR
   ENTO 208 Veterinary Entomology 3 Credit Hours
2. ENTO 482 Occupational and Professional Development 2 Credit Hours
3. ENTO 301 Biodiversity and Biology of Insects 4 Credit Hours, OR
   ENTO 322 Insects in Human Society 3 Credit Hours

(NOTE: Substitutions are not allowed for core courses.)

B. Directed Elective Courses (9 hours):

Nine additional hours in 300 or 400 level ENTO courses are required. Students are encouraged to visit the Department of Entomology Academic Advisors in 404 Minnie Belle Heep Building (HPCT), West Campus, to select the appropriate directed elective courses based on their individual educational and career interests.

C. Prerequisite Courses:

All prerequisites for each core and elective course also must be met. Prerequisite courses will not be applied to the minor requirements and do not count toward the number of hours needed to complete the minor. Please refer to the Texas A&M University Undergraduate Catalog for a listing of course prerequisites.

D. Availability of Courses and Minor Recognition:

The Department of Entomology cannot guarantee the availability of the courses required to meet the above requirements. Successful completion of the minor will be certified by a degree audit in Howdy during the semester of the student’s graduation. The minor will be recognized after graduation on the student’s transcript, but not on the student’s diploma.

Students pursuing the Minor in Entomology are to complete the information requested below and submit this document to 404 HPCT.

Name: ________________________________

Printed Name

Date: ________________________________ MAJOR: ________________________________

Date: ________________________________ UIN: ________________________________

CELL PHONE #: ________________________________

TAMU EMAIL: ________________________________

________________________________________________________________________

ENTO Undergraduate Advisor’s Approval:

________________________________________________________________________

Undergraduate Advisor Signature

________________________________________________________________________

For ENTO office use only:

DATE: ________________________________ Copy of Minor Form sent to Primary Major (MS_______)

DATE: ________________________________ Student Information Entered in Database

Updated 05/2012
Entomology - Minor

The minor in Entomology is available to all students enrolled at Texas A&M University. The courses listed constitute the minimum 17 hours required for a minor in Entomology.

1. Students must earn a grade of C or better in each course used for the minor.

2. Prerequisite Courses: All prerequisites for each core and elective course must also be met. Prerequisite courses will not be applied to the minor requirements and do not count toward the number of hours needed to complete the minor. Please refer to the Texas A&M University Undergraduate Catalog for a listing of course prerequisites.

3. Availability of courses and minor recognition: The Department of Entomology cannot guarantee the availability of the courses required to meet the minor requirements. Successful completion of the minor will be certified by a degree audit in Howdy during the semester of the student's graduation. The minor will be recognized after graduation on the student's transcript, but not on the student's diploma.

Students pursuing the Minor in Entomology are to complete the minor application form (https://insects.tamu.edu/futurestudents/minors/Minor%20Entomology%20Form-%20FINAL.pdf) and submit the document to the Department of Entomology Advising Office in 404 Minnie Belle Hep Building (PHB).

Program Requirements

Core Courses

1. ENTO 201 General Entomology or
   ENTO 208 Veterinary Entomology
   3

2. ENTO 482 Occupational and Professional Development
5

3. ENTO 301 Biodiversity and Biology of Insects or
   ENTO 822 Insects in Human Society
   3

Directed Electives

Select from the following list:

ENTO 300 Field Studies
WFSC 303

ENTO 305 Evolution of Insect Structure
ENTO 306 Insect Physiology
ENTO 315 Biotechnology and Society
ENTO 320 Honey Bee Biology

ENTO 401 Principles of Integrated Pest Management
ENTO 402 Field-Crop Insects
ENTO 403 Urban Entomology
ENTO 423 Medical Entomology
ENTO 424 Insect Ecology
ENTO 428 Insect Biotechnology
ENTO 429 Insect Biotechnology Laboratory
ENTO 431 The Science of Forensic Entomology
PIDS 431

ENTO 432 Applied Forensic Entomology
PIDS 432

ENTO 435 Case Studies in Problem Solving
ENTO 450 Caribbean Conservation
WFSC 450

ENTO 451 Caribbean Research Seminar
WFSC 451
ENTO 481 Seminar
ENTO 484 Professional Internship
ENTO 485 Directed Studies
ENTO 489 Special Topics in...

Total Semester Credit Hours

17

* Substitutions are not allowed for core courses.

Students are encouraged to visit the Department of Entomology Advising Office in 404 Minnie Belle Hep Building (PHB), West Campus, to select the appropriate directed elective courses based on their individual educational and career interests.
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitations
Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitations Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Catalog Term: Fall 2015 - College Station

Program: BS ENT0
Campus: College Station
College: Agriculture & Life Sciences
Degree: Bachelor of Science
Level: Undergraduate

Catalog Term: Fall 2015 - College Station

Request Number: 118
Results as of: July 16, 2015
Minors: Entomology
Concentrations: Entomology

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<th>Credits</th>
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Transfer:

This is NOT an official evaluation.

Area: Major Coursework (38.000 credits) - Not Met

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<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
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<tbody>
<tr>
<td>No A. ENT0 201 hrs</td>
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<td>No AND B. ENT0 305 hrs</td>
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<td>No AND C. ENT0 306 hrs</td>
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<td>No AND D. ENT0 424 hrs</td>
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<td>No AND E. ENT0 481 hrs</td>
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<td>No AND F. ENT0 435 hrs</td>
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<tr>
<td>No AND G. Biodivers &amp; Insects 4hrs</td>
<td>Take ENT0 301</td>
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<td>No AND H. ENT0 428 hrs</td>
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<td>No AND I. Internship/Research 2hrs</td>
<td>Select from ENT0 484, 49L</td>
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<td>No AND J. ENT0 428 2hrs</td>
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<td>No AND K. ENT0 429 1hr</td>
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unofficial evaluation

Area: Supporting Coursework (35.000 credits) - Not Met

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<td>No AND B. GENE 301 4hrs</td>
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Total Credits and GPA 0.000 .00

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<td>AND B. Political Science Reqnt 6hrs</td>
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<td>A. General Electives 12hrs</td>
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<td>No</td>
<td>A. ENTO 482</td>
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| Area | University Writing Requirement - Not Met |

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https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption
7/16/2015
unofficial evaluation

Area : Int'l & Cult Diversity - Not Met
Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. Int'l & Cultural Diversity 6hr

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

Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Foreign Language - Not Met
Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source
No A. Foreign Language 90mt

Complete one of the following:
1. Two years of the same foreign language in high school.
2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Residence Requirement - Not Met
Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source
No A. Residence - Major 12hrs

Select from ENTO 300-499.
No AND B. Residence 300-499 24hrs

Select from any 300-499 level course at Texas A&M.

Total Credits and GPA 0.606 .00

unofficial evaluation

Area : GPR-Major - Not Met
Description: A minimum GPA of 2.000 is required in all major field of studies courses.
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Grade Source
No A. Major GPR 21 hrs

Includes ENTO 100-499.

Total Credits and GPA 0.000 .00

unofficial evaluation

Back to Display Options
TEXAS A&M UNIVERSITY
AT GALVESTON
TAMUG
NEW COURSE
Texas A&M University

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

Form Instructions

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

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

3. Course prefix, number and complete title of course: MARS 408 Introduction to Estuarine and Coastal Hydrodynamics

4. Catalog course description (not to exceed 30 words): Physical processes in estuarine and coastal environments in various time scales: turbulent, tidal and residual (subtidal); study of salts, suspended solids, nutrients, and heat affected by water movement; physical, biogeochemical processes and mass transport.

5. Prerequisite(s): MATH 251, PHYS 218, Jr or Sr classification or approval of instructor
   Cross-listed with: 
   Stacked with: 
   Cross-listed courses require the signature of both department heads.

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

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

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

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

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

11. Marine Sciences, Offshore and Coastal Systems Engineering

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

13. Prefix: MARS
    Course #: 408
    Title (including punctuation): ESTUARINE & COASTAL HYDRODYNAMICS

    Exct. | Lab. | Other | SCH | CIP and Fund Code | Admin. Unit | Acct. Year | FICE Code
    ----- |----- |------ |----- |------------------ |------------- |------------ |----------
    3.00  | 0.00 |       | 3.00 | 30.3201.00 OA    | 1810         | 16-17      | 010298    

    Approval recommended by:
    Kyung Park
    Department Head or Program Chair (Type Name & Sign) Date 8/3/15

    Chair, College Review Committee
    Dean of College
    Date 8/3/15

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

    Associate Director, Curricular Services
    Date

    Effective Date

   RECEIVED
   By Curricular Services at 2:19 pm, Aug 21, 2015

   this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
   Curricular Services – 07/14
Course title and number: Estuarine and Coastal Hydrodynamics (MARS 408)  
Term (e.g., Fall 200X): Fall 201X  
Meeting times and location: TBD

Course Description and Prerequisites

Materials introduced into estuarine and coastal environments, such as salts, suspended solids, nutrients, and even heat, are affected by water movement (as well as by material-specific biogeochemical processes), thus making physical mass transport a fundamental component in studying fate and distribution of materials in estuarine and coastal environments. This course introduces physical processes occurring in estuarine and coastal environments. With physical processes occurring in various time scales in estuarine and coastal environments, discussion will proceed in terms of three different time scales: turbulent, tidal, and residual (subtidal) time scales. This course will also discuss the effects of physical processes on mass transport and some important biogeochemical processes.  
Prerequisites: MATH 251, PHYS 218, junior or senior classification or approval of instructor.

Learning Outcomes

Upon completion of the course, a student is expected to:

- explain different time and spatial scales at which physical processes (mainly water movement) occur in estuarine and coastal environments;
- discuss physical processes in tidal and subtidal time scales and their effects on mass (e.g., pollutant) transport;
- discuss roles of turbulence as it affects physical processes in tidal and subtidal time scales (e.g., mean motion); and
- describe processes important for long-term transport and distribution of materials (e.g., pollutants) in estuarine and coastal environments.

Upon completion of the course, a student is expected to be prepared for embarking upon more advanced subjects in the dynamics of marine and coastal sciences and engineering, such as numerical modeling of physical mass transport, biogeochemical pollutants, or living resources.

Instructor Information

Name: Kyeong Park  
Telephone number: 409-740-4710  
Email address: parkk@tamug.edu  
Office hours: TBD  
Office location: OCSB 280

Textbook and/or Resource Material

No formal textbook exists but lecture notes will be provided. Recommended auxiliary textbooks are:

**Course Topics and Calendar of Activities**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Introduction and definition of terminology</td>
</tr>
<tr>
<td>2</td>
<td>Qualitative classification and characterization of estuaries</td>
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<tr>
<td>3</td>
<td>Different components depending on their time scales and the corresponding governing equations and their physical meanings</td>
</tr>
<tr>
<td>4</td>
<td>Dimensional and scaling analysis of governing equations for open ocean and coastal systems</td>
</tr>
<tr>
<td>5</td>
<td>Tidal dynamics: Tide producing force and generation of tidal waves</td>
</tr>
<tr>
<td>6</td>
<td>Tidal dynamics: Tides in open ocean vs. tides in estuarine and coastal environments</td>
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<tr>
<td>7</td>
<td>Tidal dynamics: Linear shallow water wave theory – progressive vs. standing waves</td>
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<td>8</td>
<td>Mid-exam, and turbulence: Its effects on ensemble mean motion</td>
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<td>9</td>
<td>Turbulence: Parameterization of turbulent mixing and its implications on mean motion</td>
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<td>10</td>
<td>Residual circulation: Salt balance in partially-mixed estuaries</td>
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<td>11</td>
<td>Residual circulation: Dynamic balance in partially-mixed estuaries</td>
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<td>12</td>
<td>Residual circulation: Analytical solution and transient behavior</td>
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<td>13</td>
<td>Subtidal mass transport: Theory and application</td>
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<td>14</td>
<td>Tidal flushing, dispersion and distribution of pollutants</td>
</tr>
<tr>
<td>15</td>
<td>Final exam</td>
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</table>

*Homework assignments will be given based on the progress of the lectures.*

**Grading Policies**

A total of 100 course points can possibly earned by a undergraduate student. Students will have two in-class exams (with each exam accounting for 42%) and homework problems (16%). The grading scale is A (≥ 80%), B (≥ 70%), C (≥ 60%), and D (≥ 50%).

**Statement on Course Evaluations**

The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at [http://pica.tamu.edu](http://pica.tamu.edu), your Howdy portal, or by scanning:

**Americans with Disabilities Act (ADA) Policy Statement**

The Americans with Disabilities Act (ADA) is a federal non-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this law requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409) 740-4587. For additional information visit [http://www.tamug.edu/counsel/services/dssprocedures.htm](http://www.tamug.edu/counsel/services/dssprocedures.htm).

**Academic Integrity Statement and Policy**

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

**Attendance and Make-up Policies**

Information concerning absences is contained in the University Student Rules Section 7 (http://www.tamug.edu/stulife/Academic%20Rules/Rule%207.pdf). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

**Statement on the Family Educational Rights and Privacy Act (FERPA)**

FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student's social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.
TAMUG

Change in Curricula
TAMUG
CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE BIOLOGY
BS IN MARINE BIOLOGY
Texas A&M University
Request for a Change in Curriculum

1. Request change for:  
   - Degree Program  
   - Minor  
   - Certificate  
   - Marine Biology  
   - B.S. in Marine Biology  

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

3. Program Designation and Name  
   - e.g., B.A. in History, Minor in History, Certificate in European Union:  

4. Brief description of change:  
   Specify which math courses will be accepted, correct the sequence of required courses based on pre-requisites, update elective course offerings.

5. Rationale for change:  
   Previous catalog did not specify math courses and had some courses out of order according to pre-requisites.

6. Use the checkboxes below to make sure that all information is included.  
   - Proposed curriculum attached.  
   - Current catalog curriculum with handwritten edits attached.  
   - Current Howdy degree evaluation with handwritten edits attached.  
   - Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.  

7. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   - If yes, degree program hours will change from: _______ to: _______.  
   - http://www.theb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60  

8. If proposed changes affect other unit(s), are letters of support attached?  

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

Approval Recommended by:  

Department Head or Program Chair (Type Name & Sign)  

Date  

Dean of College  

Date  

Chair, College Review Committee  

Date  

Chair, GC or UCC  

Date

RECEIVED  

By Curricular Services at 2:19 pm, Aug 21, 2015
Curricular Services – 07/12
UNDERGRADUATE ACADEMIC CURRICULA

Curriculum in Marine Biology (MARB)

The Department of Marine Biology offers these three degree programs: Marine Biology (MARB), Marine Biology License Option (MARB/LO) and Marine Fisheries (MARF). These curricula are subject to the following rules and requirements:

The student shall have earned at least a grade of C in BIOL 111 and 112. Students may not advance to BIOL 112 until a grade or C of better is earned in BIOL 111.

Transfer students must have a minimum GPR of 2.5 or approval of the MARB Department Head to be admitted to the department. Transfer students with the required courses who meet the criteria listed above may be admitted directly into the MARB, MARB/LO and MARF degree programs.

Preference for available seats in courses in the Department will be given to students who have been admitted to the degree program. If additional spaces are available, students from other departments for whom courses in the Department are on their program of study, and who meet the course prerequisites, may be enrolled.

It is the student's responsibility to satisfactorily complete prerequisite coursework before enrolling in more advanced courses. The Marine Biology program provides an excellent education in the biological sciences through studies undertaken in a unique coastal environment. The curriculum offers broad training in general biology, while emphasizing the local flora and fauna in estuaries and the marine environment. Students receive hands-on field sampling experience as well as internship opportunities.

Students majoring in Marine Biology can be eligible for a secondary teaching field in Life Sciences pending the completion of a teaching certification program. For information about teaching certification, go to https://secure.sbec.state.tx.us/SBECOnline/approvedprograms.asp.

FRESHMAN YEAR

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<tbody>
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<td>CHEM 101</td>
<td>Fundamentals of Chemistry I</td>
<td>(3-0)</td>
<td>3</td>
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Spring Semester

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<td>Elective in Mathematics</td>
<td>Requirement</td>
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SOPHOMORE YEAR

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<tr>
<td>CHEM 227</td>
<td>Organic Chemistry I</td>
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<td>CHEM 237</td>
<td>Organic Chemistry Lab I</td>
<td>(0-3)</td>
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<tr>
<td>MARB 315</td>
<td>Natural History of Vertebrates †</td>
<td>(3-3)</td>
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<tr>
<td>PHYS 201</td>
<td>College Physics</td>
<td>(0-3)</td>
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<tr>
<td>POLS 206</td>
<td>American National Government</td>
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Spring Semester

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<td>Genetics</td>
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<td>PHYS 202</td>
<td>College Physics</td>
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<tr>
<td>POLS 207</td>
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JUNIOR YEAR

Fall Semester

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Spring Semester

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<th>Hours</th>
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<tr>
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<td>Biochemistry</td>
<td>(2-2)</td>
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<tr>
<td>MARB 435</td>
<td>Marine Invertebrate Zoology</td>
<td>(3-3)</td>
<td>4</td>
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<td></td>
<td>Elective in Marine Biology</td>
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<td></td>
<td>Elective in Social and Behavioral Sciences</td>
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<td>Total Hours</td>
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SENIOR YEAR

Fall Semester

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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MARB 425</td>
<td>Marine Ecology</td>
<td>(3-3)</td>
<td>4</td>
</tr>
<tr>
<td>MARB 430</td>
<td>Coastal Plant Ecology</td>
<td>(3-3)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Elective in Earth Science</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Elective in Marine Biology</td>
<td></td>
<td>4</td>
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<tr>
<td></td>
<td>Total Hours</td>
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Spring Semester

<table>
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<th>Hours</th>
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<tbody>
<tr>
<td>MARB 420</td>
<td>Comparative Animal Physiology</td>
<td>(3-3)</td>
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<td>MARB 482</td>
<td>Seminar in Marine Biology</td>
<td>(1-0)</td>
<td>1</td>
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<tr>
<td></td>
<td>Elective in Language, Philosophy and Culture</td>
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<td>Elective in Marine Biology</td>
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<tr>
<td></td>
<td>Elective in Creative Arts</td>
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<tr>
<td></td>
<td>Total Hours</td>
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</table>

Total Curriculum Hours 120

Notes for Marine Biology

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://core.tamu.edu/](http://core.tamu.edu/) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements. Up to 4 hours of MARB 491 and/or MARB 484 may be substituted for courses in your curriculum. Please consult with your academic advisor.

- A grade of "C" or better is required before advancing to upper level courses.
- Indicates required courses in the Marine Biology major. These courses will be used to compute the major GPR.
- MARB 408, which is offered in the Spring semester, can be substituted for MARB 450. MARB 408 is also a writing intensive course.
- 20 credit hours of biology electives required. A minimum of 12 credit hours must be taken from the following: BIOL 351, MARB 311, MARB 330, MARB 360, MARB 400, MARB 401, MARB 404, MARB 407, MARB 408, MARB 410, MARB 430, BIOL 466, MARB 360, and BIOL 420. For the remainder of the 20 hours of biology electives, students may take a maximum of two mammal courses (selected from MARB 400, MARB 401, MARB 403), one of the two MARB scientific diving courses (either 345 or 350), or any other MARB 300-400 level classes.
- The Earth Science elective may be chosen from GEOL 499, OCNG 251-499, METR 302.
- Designated writing intensive course.
- The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses. Students who take MATH 131 instead of MATH 142 will have 121 credit hours.

- There are two mathematics course requirements. The first is Math 142 or 151. The other math course shall be selected from MATH 141, 145, 152, or PHIL 240. Depending on the math sequence selected, the number of credit hours may vary by 1 or 2 credits. Credit will not be given for both Math 151 and Math 142.
# Texas A&M University at Galveston
## Marine Biology

### Freshman Year

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<tr>
<td>BIOL 111 *</td>
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<td>F S</td>
<td>BIOL 112 *</td>
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<td>CHEM 101</td>
<td>3</td>
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<td>CHEM 102</td>
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<td>MATH 141/150/152/PHIL 240</td>
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<td>ENGL 104</td>
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### Sophomore Year

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<td>CHEM 228</td>
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<td>MARB 315</td>
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<td>F S</td>
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<td>POLS 206</td>
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### Junior Year

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### Senior Year

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<td>408 (S)</td>
<td>430 (F)</td>
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<td>Elective in MARB</td>
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<td>Elective in Lang/Phil/Culture</td>
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<td>Elective in Creative Arts</td>
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### Comments:

1. Required to have a 3 hour American History course. May choose from the following: HIST 105, 106, 226 or 232.
2. Required to have a 3 hour Communication course. May substitute COMM 203 or ENGL 203.
3. Required to have a 3 hour Earth Science course. May choose to take OCNG 251, GEOG 101-499, or METR 302.
4. Required to have 6 hours with ICD attribute in order to graduate. It is possible to use Language/Philosophy/Culture, Creative Arts, Social Science and MARB electives to satisfy the requirement if the course also has the ICD attribute.

* Writing Intensive- Minimum 2 courses

F (FALL) S (SPRING) SU (SUMMER)

Total: 120
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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<th>Expected Graduation Date</th>
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Other Course Information

Transfer:

0.000 0

This is NOT an official evaluation.

Area: Major Coursework (40.000 credits) - Not Met

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<td>K.</td>
<td>Botany Reqmt 4hrs</td>
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unofficial evaluation

Area: Supporting Coursework (33.000 credits) - Not Met

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<td>Earth Science Elective 3hrs</td>
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Total Credits and GPA 0.000 .00

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 7/15/2015
### Detail Requirements

#### Unofficial Evaluation

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

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Total Credits and GPA 0.000 .00

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

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<td>Select from MATH 141, 150, 152; 18B; PHIL 240.</td>
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Total Credits and GPA 0.000 .00

**Area: Life and Physical Sciences (24.000 credits)** - Not Met

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<td>Physics I Reqmt 4hrs</td>
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<td>Physics II Reqmt 4hrs</td>
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<td>Select from PHYS 202 or 218.</td>
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Total Credits and GPA 0.000 .00

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

---

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### Detail Requirements

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

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<td>Select three hours from any course with the Creative Arts attribute (KCRA).</td>
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### Area: Social and Behavioral Sciences (3.000 credits) - Not Met

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<td>Select from courses with the Social and Behavioral Science attribute (KSOC).</td>
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**unofficial evaluation**

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

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<td>Select 6 hours from any course with the (DHHS) attribute.</td>
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<td>Political Science Rqmt 6hrs</td>
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<td>Take POLS 206 and POLS 207.</td>
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**unofficial evaluation**

### Area: Work Not Applied - Met

**Description**: See advisor for acceptable substitutions.

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**unofficial evaluation**

### Area: University Writing Requirement - Not Met

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<td>Select two courses with the Writing Requirement [UWRT] attribute.</td>
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<td>Int'l &amp; Cultural Diversity</td>
<td>6 hours required. Select from courses with the International and Cultural Diversity attribute (UICD).</td>
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unofficial evaluation

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unofficial evaluation

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unofficial evaluation

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TAMUG

CHANGE IN CURRICULUM

TEXAS A&M UNIVERSITY AT GALVESTON
DEPARTMENT OF MARINE BIOLOGY
BS IN MARINE FISHERIES
Texas A&M University
Request for a Change in Curriculum

1. Request change for: [ ] Degree Program [ ] Minor [ ] Certificate
   Marine Biology

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

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

3. Brief description of change:

   Specify which math courses will be accepted for MARF degree.

5. Rationale for change:

   Previous catalog did not specify required math courses.

6. a. Proposed curriculum attached. [ ] Yes [ ] No
   b. Current catalog curriculum with handwritten edits attached. [X] Yes [ ] No
   c. Current Howdy degree evaluation with handwritten edits attached. [X] Yes [ ] No

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

7. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? [X] Yes [ ] No
   b. If yes, degree program hours will change from: ________ to: ________
   c. If yes, is the Texas Higher Education Coordinating Board form attached? [X] Yes [ ] No
      http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

8. If proposed changes affect other unit(s), are letters of support attached? [X] Yes [ ] No

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

Approval recommended by:

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

[Signature]
Dean of College
Date

[Signature]
Chair, College Review Committee
Date

[Signature]
Chair, GC or UCC
Date

RECEIVED
By Curricular Services at 2:19 pm, Aug 21, 2015

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu.
Curricular Services — 07/12
Curriculum in Marine Fisheries (MARF)

The Department of Marine Biology offers these three degree programs: Marine Biology (MARB), Marine Biology License Option (MARB/LO) and Marine Fisheries (MARF). These curricula are subject to the following rules and requirements:

- The student shall have earned at least a grade of C in BIOL 111 and 112. Students may not advance to BIOL 112 until a grade of C or better is earned in BIOL 111.
- Transfer students must have a minimum GPA of 2.5 or approval of the MARB Department Head to be admitted to the department. Transfer students with the required courses who meet the criteria listed above may be admitted directly into the MARB, MARB/LO and MARF degree programs.
- Preference for available seats in courses in the Department will be given to students who have been admitted to the degree program. If additional spaces are available, students from other departments for whom courses in the Department are on their program of study, and who meet the course prerequisites, may be enrolled.
- It is the student’s responsibility to satisfactorily complete prerequisite coursework before enrolling in more advanced courses.

The curriculum in Marine Fisheries provides educational opportunities in the biological sciences, with emphasis on principles of marine fisheries management. Ecology, taxonomy, zoogeography, culture, and general biology of commercial species are emphasized. Course offerings are structured to provide not only a strong basis of formal academic instruction but also considerable hands-on field and collection experience by taking advantage of the coastal location of the University. A strong preparation in the sciences is recommended.

Marine Fisheries graduates are prepared to work as fishery managers or research biologists for state and federal agencies, ecological consulting firms, industry, and educational institutions. Qualified degree recipients may undertake postgraduate studies in resource management, mariculture, systematics, seafood technology, and fisheries economics.

### FRESHMAN YEAR

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### SENIOR YEAR

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**Total Curriculum Hours**: 120

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**Notes for Marine Fisheries**

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://core.tamu.edu](http://core.tamu.edu) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

† Indicates required courses in the Marine Fisheries major. These courses will be used to compute the major GPA.

* - A grade of "C" or better is required before advancing to upper level courses.

† - Directed Electives must be selected from 300-400 level MARB courses.

Total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses. Students who take MATH 131 instead of MATH 142 will have 121 credits/hours.

** - Designated writing intensive courses.

# - There are two mathematics course requirements. The first is Math 142 or 151. The other math course shall be selected from Math 141, 150, 152, or Phil 240. Depending on the math sequence selected, the number of credit hours may vary 1 or 2 credits. credit will not be given for both Math 151 and Math 142.
### Texas A&M University at Galveston

#### Marine Fisheries

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| **SOPHOMORE YEAR** | | | | | |
| CHEM 227 | 3 | F S, SU | CHEM 228 | 3 | F S, SU |
| CHEM 237 | 1 | F S, SU | CHEM 238 | 1 | F S |
| MARB 315 | 4 | F S | MARB 311 | 4 | SPRING |
| PHYS 201 | 4 | F S | PHYS 202 | 4 | F S |
| POLS 206 | 3 | | POLS 207 | 3 | |
| **Total** | 15 | | **Total** | 15 | |

| **JUNIOR YEAR** | | | | | |
| MARB 301 | 4 | F S | MARB 360 | 4 | SPRING |
| MARB 303 | 3 | F S | Elective in Lang/Phil/Culture | 3 | |
| MARB 312 | 4 | FALL | OCN 251 | 3 | |
| MARB 435 \(^\kappa\) | 4 | F S | MARS 489 - OCN Lab | 1 | ECON 202 | 3 |
| **Total** | 15 | | **Total** | 14 | |

| **SENIOR YEAR** | | | | | |
| MARB 423 | 4 | FALL | MARB 460 | 4 | SPRING |
| MARB 425 | 4 | FALL | MARB 482 \(^\kappa\) | 1 | F S |
| MARB 445 | 4 | FALL | Directed Elective | 4 | **** |
| Elective in Creative Arts | 3 | | Directed Elective | 3 | **** |
| ENGL 210 \(^2\) | 3 | | | | |
| **Total** | 15 | | **Total** | 15 | |

| ICD \(^3\) | | | ICD \(^3\) | | |
| Foreign Language | | | | | |
| **Total: 120** | | | | | |

### COMMENTS:

- **F (FALL)**
- **S (SPRING)**
- **SU (SUMMER)**

---

\(^1\) Required to have a 3 hour American History course. May choose from the following: HIST 105, 106, 226 or HIST 232.

\(^2\) Required to have a 3 hour Communication course. May substitute COMM 203 or ENGL 203.

\(^3\) Required to have 6 hours with ICD attribute in order to graduate. It is possible to use Language/Philosophy/Culture, Creative Arts, Social Science and MARB electives to satisfy the requirement if the course also has the ICD attribute. 

\(^\kappa\) Must be an upper level MARB course. Upper level MARS course can be chosen with approval from MARB Department.

\(\ast\) Courses requiring a grade of "C" or better

\(\kappa\) Writing Intensive - Minimum 2 courses
**Detail Requirements**

**Information for Degree Evaluation**

This is NOT an official evaluation.

**Program Evaluation**

**Limitation** Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

**Limitation** Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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This is NOT an official evaluation.

**Area : Major Coursework (52.000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

**unofficial evaluation**

**Area : Supporting Coursework (7.000 credits) - Not Met**

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 7/15/2015
### Detail Requirements

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<td>AND</td>
</tr>
<tr>
<td>F.</td>
</tr>
<tr>
<td>AND</td>
</tr>
<tr>
<td>G.</td>
</tr>
<tr>
<td>AND</td>
</tr>
<tr>
<td>H.</td>
</tr>
<tr>
<td>AND</td>
</tr>
<tr>
<td>I.</td>
</tr>
<tr>
<td>AND</td>
</tr>
<tr>
<td>J.</td>
</tr>
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</table>

### Total Credits and GPA

<table>
<thead>
<tr>
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<th>GPA</th>
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<td>.00</td>
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</table>

### Unofficial Evaluation

---

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

<table>
<thead>
<tr>
<th>No</th>
<th>A.</th>
<th>Lang, Phil, Culture Req: 3hrs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Select any course with the Language, Philosophy and Culture attribute [KLPC].</td>
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</tbody>
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---

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

7/15/2015
### unofficial evaluation

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

<table>
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<tr>
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<th>Met</th>
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<th>Subject Attribute</th>
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<th>Credits</th>
<th>Required Courses</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
<th>Credits</th>
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<tr>
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<td>A.</td>
<td>Creative Arts Requirement</td>
<td>Select three hours from any course with the Creative Arts attribute [KCRA]</td>
<td></td>
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</table>

**Total Credits and GPA** 0.000 .00

### unofficial evaluation

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

| No | A.  | ECON 202 |

**Total Credits and GPA** 0.000 .00

### unofficial evaluation

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

<table>
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<th>No</th>
<th>A.</th>
<th>American History Rqmt 6hrs</th>
<th>Select 6 hours from any course with the [KHIS] attribute.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>AND</td>
<td>B.</td>
<td>Political Science Rqmt 6hrs</td>
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**Total Credits and GPA** 0.000 .00

### unofficial evaluation

**Area: Work Not Applied - Met**

**Description:** See advisor for acceptable substitutions.

<table>
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<th>Term Subject Course</th>
<th>Title Attribute</th>
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<th>Grade Source</th>
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<td>A.</td>
<td>Courses not applied</td>
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**Total Credits and GPA** 0.000 .00

### unofficial evaluation

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

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<th>Required Courses</th>
<th>Term Subject Course</th>
<th>Title Attribute</th>
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<tr>
<td>1</td>
<td>A.</td>
<td>Writing Requirement</td>
<td>Select two courses with the Writing Requirement [UWRT] attribute.</td>
<td></td>
<td></td>
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**Total Credits and GPA** 0.000 .00

### unofficial evaluation

https://compass-ssb.tamu.edu/pls/PROD/bwckapp.P_VerifyDispEvalViewOption 7/15/2015
### Area: Int'l & Cult Diversity - Not Met

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<th>Condition</th>
<th>Rule</th>
<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
<th>Term Subject 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></td>
<td>Int'l &amp; Cultural Diversity</td>
<td></td>
<td>6 hours required. Select from courses with the International and Cultural Diversity attribute (IUCD).</td>
<td></td>
<td>Total Credits and GPA 0.000 .00</td>
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#### Unofficial Evaluation

### Area: Foreign Language - Not Met

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<th>Rule</th>
<th>Subject</th>
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<th>Required Courses</th>
<th>Term Subject 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></td>
<td>Foreign Language Rqmt</td>
<td></td>
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<td>Complete one of the following:</td>
<td>Total Credits and GPA 0.000 .00</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. Two years of the same foreign language in high school.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. A two semester sequence of the same foreign language for University credit.</td>
<td></td>
<td></td>
<td></td>
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#### Unofficial Evaluation

### Area: GPR-Major - Not Met

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<th>Subject</th>
<th>Attribute</th>
<th>Low High</th>
<th>Required Credits</th>
<th>Required Courses</th>
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<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td>A</td>
<td></td>
<td>Major GPR</td>
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<td>5 hrs</td>
<td></td>
<td>Total Credits and GPA 0.000 .00</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
<td></td>
<td>B Major GPR</td>
<td></td>
<td>4 hrs</td>
<td></td>
<td></td>
<td></td>
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#### Unofficial Evaluation

### Area: Residence Requirement - Not Met

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<th>Source</th>
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<tbody>
<tr>
<td>No</td>
<td>A</td>
<td></td>
<td>Residence Major</td>
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<td>12 hrs</td>
<td></td>
<td>Total Credits and GPA 0.000 .00</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>No</td>
<td>AND</td>
<td></td>
<td>B Residence</td>
<td></td>
<td>24 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
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#### Unofficial Evaluation

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**Back to Display Options**

2

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7/15/2015
TAMUG
SPECIAL CONSIDERATION
TAMUG SPECIAL CONSIDERATION

DEPARTMENT OF LIBERAL STUDIES
MINOR IN MARITIME STUDIES
REQUEST FOR A NEW MINOR
Texas A&M University

Proposed Minor Field of Study

Name of Minor Program: Maritime Studies

Department: Liberal Studies

College: Galveston

Will grant Minor ☑ Yes ☐ No

Academic Year: 2015/16

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

A. The following 9 hours of coursework are required:

<table>
<thead>
<tr>
<th>Select 3 hours from:</th>
<th>Select 3 hours from:</th>
<th>Select 3 hours from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 202</td>
<td>ENGL 335</td>
<td>HIST 232</td>
</tr>
<tr>
<td>ANTH 210</td>
<td>ENGL 415</td>
<td>HIST 242</td>
</tr>
<tr>
<td>ANTH 225</td>
<td></td>
<td>MAST 345</td>
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<tr>
<td>ANTH 313</td>
<td></td>
<td>POLS 347</td>
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<tr>
<td>ANTH 316</td>
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</tr>
<tr>
<td>ANTH 318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 350</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. Select 6 hours from the following courses:

<table>
<thead>
<tr>
<th>Select 3 hours from:</th>
<th>Select 3 hours from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 351</td>
<td>MAST 352</td>
</tr>
<tr>
<td>CLAS 371</td>
<td>MAST 354</td>
</tr>
<tr>
<td>MAST 265</td>
<td>MAST 411</td>
</tr>
<tr>
<td>MAST 350</td>
<td>MAST 441</td>
</tr>
</tbody>
</table>

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

Minimum of 15 hours required.

Minimum of 6 hours at 300- to 400- level

A minimum grade of "C" must be made in a course for it to count toward the Minor.

Reviewed and approved by:

Department Head/Program Director: [Signature] 7-31-15

AOC Dean of College: [Signature] 8/15/15

RECEIVED
By Curricular Services at 2:19 pm, Aug 21, 2015
MEMORANDUM

TO: Dr. Donna Lang, Vice-President for Academic Operations
FROM: JoAnn DiGeorgio-Lutz, Department Head, Liberal Studies
DATE: July 31, 2015
RE: MAST Minor

The Department of Liberal Studies is proposing a new minor in Maritime Studies (MAST). This minor offers students an interdisciplinary selection of courses to compliment the majors offered at Texas A&M University at Galveston. With our campus poised for growth in enrollment, the minor in Maritime Studies provides additional options for students and serves as a recruitment and retention tool. The minor requires a total of 15 hours – three hours each of the following: Anthropology, English, and History/Political Science, and 6 hours of electives to be chosen from Maritime Studies courses. We believe the broad range of liberal arts courses offered by this minor will provide an opportunity for TAMUG students in other majors to expand their non-scientific knowledge and experience diverse maritime topics. The courses in the minor have been carefully selected for content, class size, and instructor, to give students an optimum learning experience and to enrich all of the majors offered at TAMUG.
SPECIAL CONSIDERATION
SPECIAL CONSIDERATION

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PERFORMANCE STUDIES
MINOR IN PERFORMANCE STUDIES
REQUEST FOR A NEW MINOR
Texas A&M University
Proposed Minor Field of Study

Name of Minor Program: Minor in Performance Studies

Department: Performance Studies

College: Liberal Arts

Will grant a minor: Yes ☑ No ☐

Academic Year: 2016-17

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

A. The following ___6___ hours of course work are required.
   
   PERF 101 Introduction to Performance Studies
   
   PERF 301 Performance in World Cultures
   
B. Select ___12___ hours from the following courses.
   
   courses in Performance Studies as available
   
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 ___18___ hours required.

Minimum of 6 hours at 300- to 400-level

Minimum 2.7 GPA

Reviewed and approved by:

[Signature]
Department Head/Program Director

[Signature]
AOC Dean of College

7/16/15

CURRICULAR SERVICES

RECEIVED
AUG 21 2015
July 20, 2015

MEMORANDUM

To: Tim Scott, Chair  
Undergraduate Curriculum Committee  
Texas A&M University

Through: Steve Oberhelman, Chair  
Undergraduate Instruction Committee  
College of Liberal Arts

From: Donnalee Dox, Interim Head  
Department of Performance Studies

Subject: Creating Minor in Performance Studies

In response to an Academic Program Review in 2014, the Department of Performance Studies submitted a proposal to create a single BA in Performance Studies to replace the existing BA in Music and BA in Theatre Arts. The proposal was approved by THECB on July 2, 2015.

The Department of Performance Studies currently offers minors in Music and Theatre Arts, which we have requested be discontinued.

We request permission to create an 18 credit Minor in Performance Studies to replace the minors in Music and Theatre Arts.
SPECIAL CONSIDERATION

COLLEGE OF LIBERAL ARTS
DEPARTMENT OF PERFORMANCE STUDIES
MINOR IN MUSIC
MINOR IN THEATER ARTS
REQUEST TO DISCONTINUE MINORS
MEMORANDUM

To: Tim Scott, Chair
    Undergraduate Curriculum Committee
    Texas A&M University

Through: Steve Oberhelman, Chair
    Undergraduate Instruction Committee
    College of Liberal Arts

From: Donnalee Dox, Interim Head
    Department of Performance Studies

Subject: Discontinuing minors in Theatre Arts and Music

In response to an Academic Program Review in 2014, the Department of Performance Studies submitted a proposal to create a single BA in Performance Studies to replace the existing BA in Music and BA in Theatre Arts. The proposal was approved by the THECB on July 2, 2015.

The Department of Performance Studies currently offers minors in Music and Theatre Arts. As the curriculum for the new BA develops, the minors will not be sustainable.

We request permission to discontinue these minors and, upon approval of this request, stop admitting students into the Theatre and Music minors.
CHANGE IN CURRICULUM

FROM UCC AUGUST 2015
CHANGE IN CURRICULUM

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF PETROLEUM ENGINEERING
BS IN PETROLEUM ENGINEERING
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

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

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

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

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

5. Brief description of change:  
PETE 337 and PETE 437 added so students can register for their Student Paper Contest degree requirement which has been eliminated from PETE 335 and PETE 435. Undergraduate Student Paper Contest requirement deleted from additional requirements of the degree evaluation. PETE 300 (internship requirement) moved from degree evaluation additional requirements to detail requirements in the degree evaluation (see attached). PETE 300, PETE 337 and PETE 437 are zero credit courses.

6. Rationale for change:  
Since all PETE courses are now offered both Fall and Spring semester, having students register for their Student Paper Contest degree requirements will facilitate completion of their degree requirements, and enable the department to better track student completion.

———

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

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

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

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  ☑ Yes  ☑ No

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

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

   http://www.thecb.state.tx.us/index.cfm?objectid=40F9F7FA-9A92-4F11-2756AD3BBFF01D60

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

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

Approval recommended by:

A. D. Hill

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

Chair, College Review Committee  Date  Chair, GC or UCC  Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.bateman@tamu.edu.
Curricular Services — 04/14
# Petroleum Engineering - BS

The Department of Petroleum Engineering offers a BS in Petroleum Engineering.

## Program Requirements

The freshman year is identical for degrees in aerospace engineering, biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, mechanical engineering, nuclear engineering, ocean engineering, and petroleum engineering thus allowing a student with adequate grades to change majors within the Dwight Look College of Engineering. The freshman year is slightly different for chemical engineering and radiological health engineering in that students take CHEM 101/111 and CHEM 102/112 instead of CHEM 107/117. Students pursuing degrees in biological and agricultural engineering, computer science, engineering technology, or industrial distribution should refer to the specific curriculum for these majors. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met. In addition to the freshman year curriculum listed below, students should refer to the specific curriculum for each major for other requirements. Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

### First Year

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Term Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 104</td>
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</tr>
<tr>
<td>ENGR 111</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MATH 151</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 218</td>
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<tr>
<td>University Core Curriculum</td>
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### Second Year

#### Fall

<table>
<thead>
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<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>COMM 205</td>
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<td>3</td>
</tr>
<tr>
<td>GEOL 104</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MATH 251</td>
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<td>MEEN 221</td>
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<td>PETE 225</td>
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#### Spring

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<tr>
<td>CVEN 305</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 308</td>
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<td>3</td>
</tr>
<tr>
<td>MEEN 315</td>
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<td>PETE 311</td>
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### Third Year

#### Fall

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<th>Term Semester Credit Hours</th>
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<tr>
<td>GEOL 404</td>
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</tr>
<tr>
<td>PETE 301</td>
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<td>3</td>
</tr>
<tr>
<td>PETE 310</td>
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<td>3</td>
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<td>PETE 314</td>
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<td>PETE 335</td>
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<td>PETE 353</td>
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### Spring

<table>
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<tbody>
<tr>
<td>PETE 321</td>
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<tr>
<td>PETE 323</td>
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<tr>
<td>PETE 324</td>
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<td>PETE 325</td>
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<td>3</td>
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<td>PETE 355</td>
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#### Summer

<table>
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<tr>
<th>Course</th>
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<th>Term Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PETE 300</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

---

1. A grade of C or better is required.
2. Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.
3. Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 6 hours from international and cultural diversity may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity courses.
4. BMEN, CHEN and RHEN require 8 hours of freshman chemistry, which may be satisfied by CHEM 101/111 or CHEM 107/117 and CHEM 102/112; Credit by Examination (CBE) for CHEM 101/111 or CHEM 107/117 plus CHEM 102/112; or 8 hours of CBE for CHEM 101/111 or CHEM 107/117 and CHEM 102/112.
### Fourth Year

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PETE 401</td>
<td>Reservoir Simulation</td>
<td>2</td>
</tr>
<tr>
<td>PETE 404</td>
<td>Integrated Reservoir Modeling</td>
<td>3</td>
</tr>
<tr>
<td>PETE 410</td>
<td>Production Engineering</td>
<td>3</td>
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<tr>
<td>PETE 435</td>
<td>Technical Presentations II</td>
<td>1</td>
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</table>

University Core Curriculum \(^3\) 6

**Total Semester Credit Hours** 15

#### Spring

<table>
<thead>
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<tr>
<td>ENGR 482/PHIL 482</td>
<td>Ethics and Engineering</td>
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<tr>
<td>PETE 402</td>
<td>Integrated Asset Development</td>
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<td>Technical elective</td>
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</table>

University Core Curriculum \(^3\) 3

**Total Semester Credit Hours** 15

---

1. Independent study of a petroleum engineering problem; the solution of which will be documented by an oral presentation at the departmental student paper contest held during the same academic year.

2. As approved by the department head; see engineering.tamu.edu/petroleum for a list of approved courses.

**Total Program Hours 128**
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program: BS PETE
Campus: College Station
College: Dwight Look College of Engr
Degree: Bachelor of Science
Level: Undergraduate
Major(s): Petroleum Engineering
Department(s): Petroleum Engineering

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<td>Program GPA:</td>
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<td>Overall GPA:</td>
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Other Course Information

Transfer: 0.000

This is NOT an official evaluation.

Area Major Coursework (56.000 credits) - Not Met

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<th>Required Courses</th>
<th>Term</th>
<th>Subject</th>
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<tr>
<td>No</td>
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<td>PETE 225 1 hrs</td>
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<td>Must make a grade of 'C' or better.</td>
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<td>No</td>
<td>AND</td>
<td>B.</td>
<td>PETE 301 3 hrs</td>
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<td>AND</td>
<td>C.</td>
<td>PETE 310 4 hrs</td>
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<td>D.</td>
<td>PETE 311 4 hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>F.</td>
<td>PETE 325 3 hrs</td>
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<td>G.</td>
<td>PETE 321 4 hrs</td>
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<td>No</td>
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<td>H.</td>
<td>PETE 404 3 hrs</td>
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<td>J.</td>
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<td>L.</td>
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<td>N.</td>
<td>PETE 353 3 hrs</td>
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<tr>
<td>No</td>
<td>AND</td>
<td>O.</td>
<td>PETE 410 2 hrs</td>
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<td>P.</td>
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Total Credits and GPA: 0.000 .00

unofficial evaluation
### Area Supporting Coursework (28.000 credits) - Not Met

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Total Credits and GPA: 0.000, .00

#### Unofficial Evaluation

### Area Communication (6.000 credits) - Not Met

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No AND B. COMM 205

Total Credits and GPA: 0.000, .00

#### Unofficial Evaluation

### Area Mathematics (8.000 credits) - Not Met

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<th>No</th>
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Total Credits and GPA: 0.000, .00

#### Unofficial Evaluation

### Area Life and Physical Sciences (12.000 credits) - Not Met

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<th>Required Courses</th>
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<td>No AND</td>
<td>C. PHYS 208</td>
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Total Credits and GPA: 0.000, .00

#### Unofficial Evaluation

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

#### Unofficial Evaluation
unofficial evaluation

Area: Creative Arts (3.000 credits) - Not Met

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<td>Select three hours from any course with the Creative Arts attribute (KCRE).</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

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

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<td>Select from courses with the Social and Behavioral Science attribute (KSOC).</td>
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Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met

Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
<thead>
<tr>
<th>No</th>
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<th>American History Rqmt 6hrs</th>
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<tr>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
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<table>
<thead>
<tr>
<th>No</th>
<th>AND B.</th>
<th>Political Science Rqmt 6hrs</th>
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<tr>
<td></td>
<td></td>
<td>Take POLS 206 and POLS 207.</td>
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</table>

Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Work Not Applied - Met

Description: See advisor for acceptable substitutions.

| No | A. | Courses not applied |

Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Common Body of Knowledge - Not Met

| No | A. | Required Course |

Total Credits and GPA 0.000 0.00
No A. MATH 151
Must have a grade of 'C' or better.

No AND B. MATH 152
Must have a grade of 'C' or better.

No AND C. PHYS 208
Must have a grade of 'C' or better.

No AND D. PHYS 228
Must have a grade of 'C' or better.

No AND E. CHEM 107 and CHEM 117
Must have a grade of 'C' or better.

No AND F. ENGL 104
Must have a grade of 'C' or better.

No AND G. ENGR 111
Must have a grade of 'C' or better.

No AND H. ENGR 112
Must have a grade of 'C' or better.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area University Writing Requirement - Not Met

<table>
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<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
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<tr>
<td>No</td>
<td>A.</td>
<td>Writing Requirement</td>
<td></td>
<td>Two courses required. Only sections of ENGR 482; PETE 435 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Int'l & Cult Diversity - Not Met

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<tr>
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<th>Condition</th>
<th>Rule Subject</th>
<th>Attribute</th>
<th>Low High Required Credits</th>
<th>Required Courses</th>
<th>Term Subject</th>
<th>Course Title Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
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<tbody>
<tr>
<td>No</td>
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<td>Int'l &amp; Cultural Diversity 5hr</td>
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<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 269 with the UWRT attribute).</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Foreign Language - Not Met

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<th>Attribute</th>
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<th>Required Courses</th>
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<th>Course Title Attribute</th>
<th>Credits</th>
<th>Grade Source</th>
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<tr>
<td>No</td>
<td>A.</td>
<td>Foreign Language Reqnt</td>
<td></td>
<td>Complete one of the following: 1. Two years of the same foreign language in High School. 2. A two semester sequence of the same foreign language for university credit.</td>
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</table>

Total Credits and GPA 0.000 .00

unofficial evaluation
Area: Residence Requirement - Not Met

Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

<table>
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<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required</th>
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<th>Attribute</th>
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<td>Residence-Major</td>
<td>12hrs</td>
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<td>Select from PETE 300-499; CEOL 312, 404, GEOP 421.</td>
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<td>No</td>
<td>AND</td>
<td>B. Residence</td>
<td>300-499 24hrs</td>
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<td>Select any courses level 300-499.</td>
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Total Credits and GPA: 0.000 .00

unofficial evaluation

Area: GPR-Major - Not Met

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Total Credits and GPA: 0.000 .00

unofficial evaluation

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Additional Information

Information for Degree Evaluation

Program: BS PETE

<p>| Program Non-Course Requirements - Not Met |</p>
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Program Restricted Subjects and Attributes

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