1. **New Course Requests:**
   a. ANTH 670  Anthropology Proseminar
   b. ECEN 738  Power Electronics
   c. ECEN 742  DSP Based Electromechanical Motion Control
   d. ECEN 767  Harnessing Solar Energy: Optics, Photovoltaics and Thermal System
   e. MSEN 617  Crystallography and Crystal Structure Determination
   f. VPAT 610  Cell Mechanisms of Disease

2. **Course Change Requests:**
   a. HPCH 695  Doctoral Capstone
   b. PHEB 695  Doctoral Capstone
   c. PHEO 695  Doctoral Capstone
   d. PHPM 695  Doctoral Capstone

3. **Curriculum Change Request**
   a. BS in ENGS and MS in OCNG – 3 + 2 Program

4. **Special Consideration Items:**
   a. Dual Degree in Statistics with Renmin University of China
   b. Master of Science in Management- Proposed Change for CIP Code
   c. Master of Science in Public Health- Closure of Low-Producing Degree Programs
   d. Mays Business School- Executive and Professional MBA Programs- Reduce Semester Hours
   e. Online Masters of Health Education & Sport Management Committee Size
   f. Request for New Program – 3+2 Programs
      i. BA in GEOL and MS in OCNG – 3+2 Program
      ii. BS in GEOL and MS in OCNG – 3+2 Program
      iii. BS in METR and MS in OCNG – 3+2 Program
   g. TAMU College of Dentistry- Remove Courses from Inventory
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
2. Request submitted by (Department or Program Name):
   Department of Anthropology
   ANTH 670 - Anthropology Proseminar
3. Course prefix, number and complete title of course:
4. Catalog course description (not to exceed 50 words):
   Course introduces the four bridging themes within the department and the faculty associated with each. Incoming graduate students will be exposed to the breadth of research being conducted by members of the anthropology faculty.

5. Prerequisite(s):
   Graduate Standing and major in Anthropology

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

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

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

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

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

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

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

13. Prefix  | Course # | Title (excluding punctuation)
          | ANTH | 670 | Anthropology Proseminar

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<td>6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by: Patricia A. Harms

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
Anthropology Proseminar
ANTH 689-600
Fall 2015
Fridays 9:00-12:00
Anthropology 300B

Coordinator: Sharon Gursky
gursky@tamu.edu
office: Anth 316C
Office hours: W:9-11am and by appointment

The purpose of this class is to introduce new incoming graduate students to the breadth of research being conducted by members of the anthropology faculty. Too often graduate students only take classes within their sub-field, only attend lectures within their sub-field, despite what the faculty see as clear connections between the research agendas between sub-fields. Consequently, the anthropology department has identified four themes that bridge across the four anthropological sub-fields. This course will introduce the four bridging themes and the faculty that are associated with each theme. Faculty will then give a presentation regarding their current research agenda and discuss how it relates to a bridging theme.

Prerequisites: Graduate standing and major in Anthropology

5% of the course grade will be attendance. Attendance will be taken at the start of each class period. If you arrive late for class, more than 15 minutes, you will only receive 50% attendance credit for that day. For additional details please refer to http://student-rules.tamu.edu/rule07. Make-ups will only be provided with a University Approved excuse and will be constructed by the Course Coordinator.

10% of the course grade will be active participation. Each graduate student should be prepared to ask at least one question to each faculty guest lecturer who has presented their work during class period. The question can come from the assigned readings or a question regarding the presentation. This question must not only be asked during class, but also typed and turned in to the class instructor. The question will constitute your participation grade for each class period.

Two to four peer reviewed journal articles have been assigned by each guest lecturer as reading for each week. These articles are required readings and will be discussed during each class period. 35% of the course grade will come from 10 one page constructive reviews of the weekly journal articles. These weekly reviews should be typed, single spaced, 12 point Times New Roman font, indicate the title and author of the paper, as well as the graduate student’s name. Copies of these articles will be placed on the table outside of the class instructor’s office (Room 316C) as well as a USB flashdrive containing pdfs of each article. Students can also obtain the articles from the library. A grading rubric is attached to this syllabus.

The other 50% of the course grade will involve the construction of a poster illustrating and discussing how what the student plans to study (ie. Nautical) and how it relates to each of the four bridging themes. This project is due on the last day of classes, December 9th, by the start of class. Faculty from the entire department will be invited to view these posters and their content. Format for the posters should follow American Anthropological Association guidelines.
Grading Scale
A = 90 - 100  
B = 89 - 80  
C = 79 - 70  
D = 69 - 60  
F = 59 or less

Statement and Policy on Individual Disabling Conditions
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 reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please contact Disability Services in Cain Hall B118 or call (979) 845-1637.

Aggie Honor Code
"An Aggie does not lie, cheat or steal, or tolerate those who do." Misconduct in research or scholarship includes fabrication, falsification, or plagiarism in proposing, performing, reviewing or reporting research. It does not include honest error or honest differences in interpretations or judgments of data. TAMU students are responsible for authenticating all work submitted to an instructor. For additional information please refer to the Honor Council Rules and Procedures on the web http://aggiehonor.tamu.edu

Diversity Statement for Course Syllabi
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/).
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Instructor</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>9/4</td>
<td>Introduction to Class</td>
<td>Food Nutrition and Culture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Vaughn Bryant</td>
<td></td>
</tr>
<tr>
<td>Week 2</td>
<td>9/11</td>
<td>Dr. Darryl de Ruiter</td>
<td>Ecology and Evolution</td>
</tr>
<tr>
<td>Week 3</td>
<td>9/18</td>
<td>Dr. Michael Alvard</td>
<td>Ecology and Evolution</td>
</tr>
<tr>
<td>Week 4</td>
<td>9/25</td>
<td>Dr. Jeff Winking</td>
<td>Ecology and Evolution</td>
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<tr>
<td>Week 5</td>
<td>10/2</td>
<td>Dr. Sharon Gursky</td>
<td>Ecology and Evolution</td>
</tr>
<tr>
<td>Week 6</td>
<td>10/9</td>
<td>Dr. Kevin Crisman</td>
<td>Technology and Material Culture</td>
</tr>
<tr>
<td>Week 7</td>
<td>10/16</td>
<td>Dr. Shelley Wachsmann</td>
<td>Technology and Material Culture</td>
</tr>
<tr>
<td>Week 8</td>
<td>10/23</td>
<td>Dr. Kelly Graf</td>
<td>Dispersals, Diasporas and Migrations</td>
</tr>
<tr>
<td>Week 9</td>
<td>10/30</td>
<td>Dr. Ted Goebel</td>
<td>Technology and Material Culture</td>
</tr>
<tr>
<td>Week 10</td>
<td>11/6</td>
<td>Dr. Lori Wright</td>
<td>Dispersals, Diasporas and Migrations</td>
</tr>
<tr>
<td>Week 11</td>
<td>11/13</td>
<td>Dr. Tom Green</td>
<td>Dispersals, Diasporas and Migrations</td>
</tr>
<tr>
<td>Week 12</td>
<td>11/20</td>
<td>Dr. Michael Waters</td>
<td>Dispersals, Diasporas and Migrations</td>
</tr>
<tr>
<td>Week 13</td>
<td>11/27</td>
<td>No Classes</td>
<td>Thanksgiving Break</td>
</tr>
<tr>
<td>Week 14</td>
<td>12/4</td>
<td>Dr. Alston Thoms</td>
<td>Food, Nutrition and Culture</td>
</tr>
<tr>
<td>Week 15</td>
<td>12/11</td>
<td>Posters</td>
<td>Viewing by all Faculty</td>
</tr>
</tbody>
</table>
## Rubric for Journal Article Review

<table>
<thead>
<tr>
<th></th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>Your Score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference</strong></td>
<td>Format is Perfect</td>
<td>Minor edits needed – follow the details.</td>
<td>Major edits needed. Learn the details.</td>
<td></td>
</tr>
<tr>
<td><strong>Review of Article</strong></td>
<td>Major points selected and discussed.</td>
<td>Same as 3, but selects couple minor issues or no supporting example explained</td>
<td>Does not focus on major issues</td>
<td></td>
</tr>
<tr>
<td><strong>Organization of writing</strong></td>
<td>Well organized thinking that reviews the article, discusses the major points in an order that makes sense, and closes with your own thoughts.</td>
<td>Minor jumping around on points. Could be better with few minor moves.</td>
<td>Major jumping around on points made in review. Major organizational edits needed to articulate clearly.</td>
<td></td>
</tr>
<tr>
<td><strong>Your Thoughts</strong></td>
<td>Articulates your thoughts on the article in clear manner. Discusses what you learned from reading the article or ideas you might use in the future.</td>
<td>Brief mention of thoughts, but did not elaborate. No mention of learning from reading the article.</td>
<td>Does not write any of your own thoughts or ideas about what is discussed in the article.</td>
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<tr>
<td><strong>Total Score</strong></td>
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# Rubric for Journal Article Review

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<th>3</th>
<th>2</th>
<th>1</th>
<th>Your Score</th>
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<td>Format is Perfect</td>
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<td></td>
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<tr>
<td><strong>Article</strong></td>
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</tr>
<tr>
<td><strong>Total Score</strong></td>
<td></td>
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</tr>
</tbody>
</table>

**Readings**
**Week 1:**


**Week 2:**


**Week 3:**


**Week 4:**


**Week 5:**


**Week 6:**


Crisman K, Lees W, Davis J. (2013). The western river steamboat Heroine, 1832-1838, Oklahoma USA: excavations, summary of finds, and history. The International Journal of Nautical Archaeology 42(2) 365-381.

**Week 7:**


**Week 8:**


**Week 9:**


Week 10:


Week 11:


Week 12:


Waters M, Stafford T. The first americans: A Review of the evidence for the late Pleistocene peopling of the Americas. 543-562.

Week 13: **No Classes; University Reading Day**

Week 14:


Week 15: **No readings; Posters due**
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

Form Instructions

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

2. Request submitted by (Department or Program Name):  Department of Electrical and Computer Engineering

3. Course prefix, number and complete title of course:  ECEN 738 Power Electronics

4. Catalog course description (not to exceed 50 words):  Electric power conditioning and control; characteristics of solid state power switches; analysis and experiments with AC power controllers, controlled rectifiers, DC choppers and DC-AC converters; applications to power supplies, airborne and spaceborne power systems.

5. Prerequisite(s):  
   Cross-listed with:  
   Graduate classification or approval of instructor.  
   Stacked with:  ECEN 438

   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)

   M.S., M.E., Ph.D. in ELEN or CEEN

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

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

13. Prefix  Course #  Title (excluding punctuation)

   ECEN 738  POWER ELECTRONICS

   Lect.  Lab  Other  STII  CP and Fund Code  Admin. Unit  Acad. Year  HCE Code
   3.00  3.00  4.00  1410010006  0936  16  -  17  0  0  3  6  3  2

   Approval recommended by:

   Jose Silva-Martinez  05/26/2015

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

   Chair, College Review Committee  6/11/15

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

   Dean of College  6/11/15

   Submitted to Coordinating Board by:

   Chair, GC or UCC  Date

   Associate Director, Curricular Services  Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services - 07/14
Course title and number: ECEN 738 Power Electronics
Term: Fall 2016
Lecture times and location: TBD
Lecture: 3 hours  Lab: 3 hours
Credit: 4
Instructor: Prof. Robert S. Balog
Department of Electrical and Computer Engineering
205D Wisenbaker Engineering Building (WEB)
979-862-4985
rbalog@ece.tamu.edu
Office Hours: online via Piazza 24x7, in person by appointment

Course Description and Prerequisites
Electric power conditioning and control; characteristics of solid state power switches; analysis and experiments with AC power controllers, controlled rectifiers, DC choppers and DC-AC converters; applications to power supplies, airborne and spaceborne power systems. Prerequisite: Graduate classification or approval of instructor.

Textbook and/or Resource Material


Course Reserves: http://library.tamu.edu/services/course-reserves/

Lab Manual: Laboratory Manual for ECEN 738 (download from PIAZZA) (Required).

Digital Media
Piazza.com – social learning environment / discussion board available on multiple platforms via web or downloadable app. Students registered on Howdy should all have automatically received an invitation email at their email.tamu.edu mail address.

eCampus – recording and disseminating grades

MediaMatrix – disseminating recorded lecture material and problem solving sessions

Grading Policies
There will be two mid-term exams and a final exam. The exams will take place as per the schedule below, unless you are notified of a change in date and time. Reading assignments will not be made; you are expected to study the book topics as appropriate. The dates indicated for the material are approximate; some modifications will be inevitable. There may be important email communications (like a change in the test date) to the class, so it is important for you to monitor Piazza.com for the latest information.
2 Exam: 40% | Grading Scale (out of 100):
- Laboratory: 20% A: 90-100; B: 80-89; C: 70-79;
Homework / Quizzes / Class participation: 20% D: 60-69; F: 59 or lower
Final Exam: 20% The instructor reserves the right to adjust (curve)
100% the grading scale downward.

Labortory attendance & grade is mandatory to pass the course. Graduate students taking ECEN 738 will have different problems on the exams from undergraduates taking ECEN 438.

Attendance and Make-up Policies

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

Homework / Quizzes / Class Participation

Weekly homework will be assigned. In-class quizzes will consist of a randomly selected problem from the homework set. Class participation will be based upon active participation in the Piazza online forum judged by contribution to questions asked by other students.

Computer Access

To use PSPICE, LabView or other software, you can either use the ECE open access lab (OAL) when not in use by a scheduled lab section.

Learning Outcomes or Course Objectives

The learning outcomes include the following ABET Criteria:
- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to identify, formulate, and solve engineering problems
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
For additional information please visit: http://aggiehonor.tamu.edu/
University Regulations Student Handbook: http://student-rules.tamu.edu
Definition of Academic Misconducts: http://student-rules.tamu.edu/rule52

The handouts used in this course are copyrighted. The definition of "handouts" is all materials generated for this class, which include but are not limited to syllabi, homework assignments, in-class materials, and additional printed materials except published scientific papers for personal use. Because these materials are copyrighted, you do not have the right to make additional copies of the handouts unless the instructor of this course expressly grants permission. As commonly defined, plagiarism consists of passing off the ideas, words, writings, etc., of another as one's own. In accordance with this definition, you are committing plagiarism if you copy the work of another person without proper citation and acknowledgement, and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic offenses, for the plagiarist destroys the trust among colleagues without which research cannot be safely
communicated. Paraphrasing without proper citation and acknowledgement is one form of plagiarism. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty". Any forms of dishonesty including, but not limited to, cheating on any examinations and plagiarism will be handled according to the procedures outlined by the Aggie Honor System Office.

**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)

**Tentative Course Topics & Key Dates**

<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Topic (tentative, subject to change)</th>
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</table>
| 1.   | 1.1 to 1.5, 2.2, 2.5 | Power Electronics – Introduction  
Power Computations |
| 2.   | 2.6 – 2.8, 4.2 | RMS, Apparent power & power factor  
Rectifiers |
| 3.   | 4.2, 4.3 | Rectifiers  
Single phase rectifiers |
| 4.   | 4.3, 4.4 | Single phase rectifiers  
Three phase rectifiers |
| 5.   | 4.4, 4.5 | Three phase rectifiers  
Controlled three-phase rectifiers |
| 6.   | 6.1 to 6.2 | DC-DC converters, Buck Converter  
**EXAM 1: Rectifiers** |
| 7.   | 6.6, 6.5 | Buck-Boost converter  
Boost Converter |
| 8.   | 6.7, 6.8 | Čuk and SEPIC Converters |
| 9.   | 7.2 | DC Power Supplies |
| 10.  | 7.3, 7.4 | Flyback and Forward Converters |
| 11.  | 7.5, 7.6 | Two-switch converters |
| 12.  | 8.2, 8.3 | DC-AC Inverters  
**EXAM 2: DC-DC Converters** |
| 13.  | 8.4 to 8.5 | DC-AC Inverters |
| 14.  | 8.6 to 8.8, 8.10 to 8.12 | DC-AC Inverters  
Pulse Width Modulation |
Introduction to the Laboratory Portion of ECEN 738

Note: You cannot adequately perform the experiment each week if you have not completed your prelab first. Therefore, if you do not turn in your prelab at the beginning of the lab period, you will receive a zero on your prelab for that week.

## Lab Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Lab</th>
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<tbody>
<tr>
<td>1</td>
<td>No lab meeting - first week of class</td>
</tr>
<tr>
<td>2</td>
<td>Demonstration 1 – “Introduction to the Laboratory”</td>
</tr>
</tbody>
</table>
| 3    | Experiment 1 – “Basic Rectifier Circuits”  
Lab Report for Demonstration 1 Due |
| 4    | Experiment 2 – “AC-DC Conversion Part I: Single-Phase Conversion”  
Lab Report for Experiment 1 Due |
| 5    | Experiment 3 – “AC-DC Conversion Part II: Poly-Phase Conversion”  
Lab Report for Experiment 2 Due |
| 6    | No Lab – Exam I |
| 7    | Experiment 4 – “Models for Real Components”  
Lab Report for Experiment 3 Due |
| 8    | Experiment 5 – “DC-DC Conversion Part I: Buck-Derived Converters”  
Lab Report for Experiment 4 Due |
| 9    | Experiment 6 – “DC-DC Conversion Part II: Boost-Derived Converters”  
Lab Report for Experiment 5 Due |
| 10   | Experiment 7 – “DC-DC Conversion Part III: Isolated Converters”  
Lab Report for Experiment 6 Due |
| 11   | No Lab – Exam II study week |
| 12   | Experiment 8 – “DC-AC Conversions Part I: Voltage-Sourced Inverters”  
Lab Report for Experiment 7 Due |
| 13   | No Lab – Thanksgiving Holiday |
| 14   | Experiment 9 – “DC-AC Conversion Part II: Pulse Width Modulated Inverters”  
Lab Report for Experiment 8 Due |
| 15   | No Lab – Reading Period  
Lab Report for Experiment 9 Due |

Attendance in Lab is MANDATORY. You are responsible for attending your lab section each week of the semester. If there is some special situation, you must discuss it with your TA before the meeting of the lab section. Only university approved absences or excuses will be accepted.

A sample of how the lab will be run each week is:

1. Turn in lab report due that week.
2. Turn in the pre-lab assignment for the lab.
3. The TA will explain any pertinent details of the experiment to be performed.
4. Perform the lab.
5. After the lab, perform data analysis, compare experimentally measured data to expected data, discuss differences and possible sources of error, and prepare report.

**Laboratory Grading –**

<table>
<thead>
<tr>
<th>Pre lab assignment</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory report</td>
<td>70%</td>
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</tbody>
</table>

100%

If you do not turn in your prelab at the beginning of the lab session you will receive a zero on your prelab for that week.
Prelab Assignments –
For each lab hardware experiment, you will have a related simulation experiment that will be performed prior to the hardware experiment and must be turned in at the start of the lab class. In order to get the full benefit of the lab experiment, you must complete your prelab before coming to lab. If you have problems, use PIAZZA or seek help from your TA before the scheduled meeting of your lab. The prelab is an individual effort and due at the beginning of the lab session. The TA will not allow you to perform the experiment if you do not hand in a pre-lab. If you choose to come to lab without your completed pre-lab, you AND your lab partner will not be allowed to conduct the experiment until both of you have completed the pre-lab. Whomever did not turn in their pre-lab on time will receive zero credit for the pre-lab, but the team will be allowed to perform the lab, once both teammates complete the pre-lab, and be eligible for full credit on the lab portion only.

We have tried to match the concepts being studied in the course with the concepts being explored in the lab sections. However, this is rarely perfect. It is strongly suggested to finish the lab reports several days before they are due in order to have an opportunity to seek help on Piazza or from a TA if needed. In the lab experiments we have tried to include an exploration of the theoretical concepts as well as direct references to your text book where you can find more information. Please take advantage of these resources before asking for the lab schedule to be changed.

Lab Reports –
One week after each lab experiment, you will be required to submit a written lab report. For each lab, experiment performed, the lab report should include:
1. A title page
2. A brief summary of what the procedure you performed and how it demonstrated a specific electrical engineering theory
3. Data tables with results
4. Example calculations and derivation of equations for any calculations needed in the data tables
5. High-impact graphs of data requested in the lab
6. Comments about each task for a lab, the theory you learned by doing the experiment, and any explanation of results that are more than +/- 10% of the expected value
7. Compared the results of the pre-lab to the results obtained in the experiment. Comment on any discrepancies and plausible sources of the disagreement using good engineering judgement.
8. Repeat the pre-lab simulation using component data measured in the lab.
9. A conclusion that summarizes why the experiment was performed and suggestions for further study of any theoretical concept.

At the end of each procedure, there will be instructions as to which data tables are required and what data should be plotted in order to complete the lab report for the specific lab. Occasionally, you may be asked to answer certain questions in your discussion of a task or in the conclusion. Your individual lab TA will give you more specifics on what is required each week.

Lab TAs can decide their own penalties for accepting late lab reports. However, Lab Reports submitted more than 1 week late should receive 0 credit. Each group should submit one lab report with the names of all lab partners on the title page. It is expected that each group member contributes equally to the total effort.

There are a couple of general guidelines that all students and TAs will be expected to follow when preparing their lab reports:
1. Lab reports must be typed. (This includes any formulas). There are ample computing facilities on campus with MS Word. Ask the TA if you are having difficulty locating one.
2. Graphs must be done using a computer aided graphing program such as MS Excel, MATLAB, MATCHAD or similar scientific graphic program.
3. Everyone in the group should understand every aspect of the lab write-up.
4. Your lab report must be handed in as soon as you come into the lab or it will be considered late.

The Lab TA will provide complete details of expectations for the lab.
Course title and number  ECEN 438 Power Electronics
Term  Fall 2016
Lecture times and location  TBD
Lecture: 3 hours  Lab: 3 hours
Credit: 4
Instructor  Prof. Robert S. Balog
Department of Electrical and Computer Engineering
205D Wisenbaker Engineering Building (WEB)
979-862-4985
rbalog@ece.tamu.edu
Office Hours  online via Piazza 24x7, in person by appointment

Course Description and Prerequisites
Electric power conditioning and control; characteristics of solid state power switches; analysis and experiments with AC power controllers, controlled rectifiers, DC choppers and DC-AC converters; applications to power supplies, airborne and spaceborne power systems. Prerequisite: Junior or senior classification in electrical engineering or approval of instructor.

Textbook and/or Resource Material
Course Reserves:  http://library.tamu.edu/services/course-reserves/

Digital Media
Piazza.com – social learning environment / discussion board available on multiple platforms via web or downloadable app. Students registered on Howdy should all have automatically received an invitation email at their email.tamu.edu mail address.

eCampus – recording and disseminating grades

MediaMatrix – disseminating recorded lecture material and problem solving sessions

Grading Policies
There will be two mid-term exams and a final exam. The exams will take place as per the schedule below, unless you are notified of a change in date and time. Reading assignments will not be made; you are expected to study the book topics as appropriate. The dates indicated for the material are approximate; some modifications will be inevitable. There may be important email communications (like a change in the test date) to the class, so it is important for you to monitor Piazza.com for the latest information.
2 Exams: 40%  |  Grading Scale (out of 100):
Laboratory: 20%  |  A: 90-100; B: 80-89; C: 70-79;
Homework / Quizzes / Class participation: 20%  |  D: 60-69; F: 59 or lower
Final Exam: 20%  |  The instructor reserves the right to adjust (curve)
100%  |  the grading scale downward.

Laboratory attendance & grade is mandatory to pass the course. Graduate students taking ECEN 738 will have different problems on the exams from undergraduates taking ECEN 438.

Attendance and Make-up Policies

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

Homework / Quizzes / Class Participation

Weekly homework will be assigned. In-class quizzes will consist of a randomly selected problem from the homework set. Class participation will be based upon active participation in the Piazza online forum judged by contribution to questions asked by other students.

Computer Access

To use PSPICE, LabView or other software, you can either use the ECE open access lab (OAL) when not in use by a scheduled lab section.

Learning Outcomes or Course Objectives

The learning outcomes include the following ABET Criteria:
- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to identify, formulate, and solve engineering problems
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
For additional information please visit: http://aggiehonor.tamu.edu/
University Regulations Student Handbook: http://student-rules.tamu.edu
Definition of Academic Misconducts: http://student-rules.tamu.edu/rule52

The handouts used in this course are copyrighted. The definition of "handouts" is all materials generated for this class, which include but are not limited to syllabi, homework assignments, in-class materials, and additional printed materials except published scientific papers for personal use. Because these materials are copyrighted, you do not have the right to make additional copies of the handouts unless the instructor of this course expressly grants permission. As commonly defined, plagiarism consists of passing off the ideas, words, writings, etc., of another as one's own. In accordance with this definition, you are committing plagiarism if you copy the work of another person without proper citation and acknowledgement, and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic offenses, for the plagiarist destroys the trust among colleagues without which research cannot be safely
communicated. **Paraphrasing** without proper citation and acknowledgement is one form of plagiarism. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty". Any forms of dishonesty including, but not limited to, cheating on any examinations and plagiarism will be handled according to the procedures outlined by the Aggie Honor System Office.

**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)

### Tentative Course Topics & Key Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Topic (tentative, subject to change)</th>
</tr>
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</table>
| 1.   | 1.1 to 1.5, 2.2, 2.5 | Power Electronics – Introduction  
Power Computations |
| 2.   | 2.6 – 2.8, 4.2 | RMS, Apparent power & power factor  
Rectifiers |
| 3.   | 4.2, 4.3 | Rectifiers  
Single phase rectifiers |
| 4.   | 4.3, 4.4 | Single phase rectifiers  
Three phase rectifiers |
| 5.   | 4.4, 4.5 | Three phase rectifiers  
Controlled three-phase rectifiers |
| 6.   | 6.1 to 6.2 | DC-DC converters, Buck Converter  
**EXAM 1: Rectifiers** |
| 7.   | 6.6, 6.5 | Buck-Boost converter  
Boost Converter |
| 8.   | 6.7, 6.8 | Ćuk and SEPIC Converters |
| 9.   | 7.2 | DC Power Supplies |
| 10.  | 7.3, 7.4 | Flyback and Forward Converters |
| 11.  | 7.5, 7.6 | Two-switch converters |
| 12.  | 8.2, 8.3 | DC-AC Inverters  
**EXAM 2: DC-DC Converters** |
| 13.  | 8.4 to 8.5 | DC-AC Inverters |
| 14.  | 8.6 to 8.8, 8.10 to 8.12 | DC-AC Inverters  
Pulse Width Modulation |
Introduction to the Laboratory Portion of ECEN 438

Note: You cannot adequately perform the experiment each week if you have not completed your prelab first. Therefore, if you do not turn in your prelab at the beginning of the lab period, you will receive a zero on your prelab for that week.

Lab Schedule

<table>
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<tbody>
<tr>
<td>1</td>
<td>No lab meeting - first week of class</td>
</tr>
<tr>
<td>2</td>
<td>Demonstration 1 – “Introduction to the Laboratory”</td>
</tr>
</tbody>
</table>
| 3    | Experiment 1 – “Basic Rectifier Circuits”  
      | Lab Report for Demonstration 1 Due |
| 4    | Experiment 2 – “AC-DC Conversion Part I: Single-Phase Conversion”  
      | Lab Report for Experiment 1 Due |
| 5    | Experiment 3 – “AC-DC Conversion Part II: Poly-Phase Conversion”  
      | Lab Report for Experiment 2 Due |
| 6    | No Lab – Exam I |
| 7    | Experiment 4 – “Models for Real Components”  
      | Lab Report for Experiment 3 Due |
| 8    | Experiment 5 – “DC-DC Conversion Part I: Buck-Derived Converters”  
      | Lab Report for Experiment 4 Due |
| 9    | Experiment 6 – “DC-DC Conversion Part II: Boost-Derived Converters”  
      | Lab Report for Experiment 5 Due |
| 10   | Experiment 7 – “DC-DC Conversion Part III: Isolated Converters”  
      | Lab Report for Experiment 6 Due |
| 11   | No Lab – Exam II study week |
| 12   | Experiment 8 – “DC-AC Conversions Part I: Voltage-Sourced Inverters”  
      | Lab Report for Experiment 7 Due |
| 13   | No Lab – Thanksgiving Holiday |
| 14   | Experiment 9 – “DC-AC Conversion Part II: Pulse Width Modulated Inverters”  
      | Lab Report for Experiment 8 Due |
| 15   | No Lab – Reading Period  
      | Lab Report for Experiment 9 Due |

Attendance in Lab is MANDATORY. You are responsible for attending your lab section each week of the semester. If there is some special situation, you must discuss it with your TA before the meeting of the lab section. Only university approved absences or excuses will be accepted.

A sample of how the lab will be run each week is:

6. Turn in lab report due that week.
7. Turn in the pre-lab assignment for the lab.
8. The TA will explain any pertinent details of the experiment to be performed.
9. Perform the lab.
10. After the lab, perform data analysis, compare experimentally measured data to expected data, discuss differences and possible sources of error, and prepare report.

Laboratory Grading –

| Laboratory report | Pre lab assignment | 30% |
|                   | Laboratory report  | 70% |
|                   | Total             | 100% |

If you do not turn in your prelab at the beginning of the lab session you will receive a zero on your prelab for that week.
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7. Compared the results of the pre-lab to the results obtained in the experiment. Comment on any discrepancies and plausible sources of the disagreement using good engineering judgement.
8. As directed by your TA, repeat the pre-lab simulation using component data measured in the lab.
9. A conclusion that summarizes why the experiment was performed and suggestions for further study of any theoretical concept.

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5. Lab reports must be typed. (This includes any formulas). There are ample computing facilities on campus with MS Word. Ask the TA if you are having difficulty locating one.
6. Graphs must be done using a computer aided graphing program such as MS Excel, MATLAB, MATCHAD or similar scientific graphic program.
7. Everyone in the group should understand every aspect of the lab write-up.
8. Your lab report must be handed in as soon as you come into the lab or it will be considered late.

The Lab TA will provide complete details of expectations for the lab.
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
2. Request submitted by (Department or Program Name): Department of Electrical and Computer Engineering
3. Course prefix, number and complete title of course: ECEN 742 DSP Based Electromechanical Motion Control
4. Catalog course description (not to exceed 50 words): Overview of energy conversion and basic concepts on electromechanical motion devices; different control strategies including the solid-state drive topologies; for every electromechanical motion device, its DSP control implementation discussed and implemented in the lab.

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

Cross-listed with: Stacked with: ECEN 442
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)
   M.S., M.E., Ph.D. in ELEN or CEEN
b. an elective for students enrolled in the following degree program(s) (e.g., M.S. Ph.D. in geography)

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

13. Prefix Course # Title(excluding punctuation)
    ECEN 742 DSP-BASED MOTION CONTROL

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CPF and Fund Code</th>
<th>Admin. Unit</th>
<th>Yr</th>
<th>SC</th>
<th>ECU Code</th>
</tr>
</thead>
<tbody>
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<td>16</td>
<td>-</td>
<td>17</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by: Jose Silva-Martinez
Department Head or Program Chair (Type Name & Sign) Date 05/20/2015
Chair, College Review Committee Date 06/11/15
Dean of College Date

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

Associate Director, Curricular Services Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 07/14
Course title and number  ECEN 742 DSP-Based Electromechanical Motion Control
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Overview of energy conversion and basic concepts on electromechanical motion devices; different control strategies including the solid-state drive topologies; for every electromechanical motion device, its DSP control implementation discussed and implemented in the lab. Prerequisites: Graduate classification or approval of instructor.

Learning Outcomes
Upon completion of the course, students will be able to:
- Program digital signal processor board
- Understand and control dc motors
- Understand and control permanent magnet brushless dc motors
- Understand and control stepper motors
- Understand and control induction motors

Instructor Information
Name  Hamid A. Toliyat
Telephone number  (979) 862-3034
Email address  toliyat@tamu.edu
Office hours  TBD
Office location  WEB 205-E

Textbook and/or Resource Material
References:
2. Piccolo Microcontrollers (TMS320F28035) and related references http://focus.ti.com/lit/ds/symlink/tms320f28035.pdf
Note: Reference guides for the specific equipment being used in the lab will be sent to you.

Grading Policies
Lab: 35%
Homework & Quiz: 15%
Exam #1: 20%
Exam #2: 20%
Lab-based mini-project: 10%

A = 90-100  B = 80-89  C = 70-79  D = 60-69  F = Less than 60
Attendance and Make-up Policies

- Attendance in lab is mandatory.
- Unexcused late lab reports or homework will be penalized in the following way:
  1-5 days late – 10% off the top for each day
  5 days late – 0 for the assignment
- I will not contact you to tell you that your assignment is late. You must make arrangements with me if, for some reason, you find you must hand in a late assignment.
- Refer to student rule 7 at http://student-rules.tamu.edu/rule07 for all policies regarding excused absences

Course Topics, Calendar of Activities, Major Assignment Dates

Exams will occur at 6:00 PM on the scheduled dates. Please notify any conflicts with your schedule as soon as possible.

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<tr>
<th>Week</th>
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<th>Lab</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>DSP based control and applications</td>
<td>None</td>
</tr>
<tr>
<td>2</td>
<td>Piccolo based hardware introduction, Introduction to C programming</td>
<td>None</td>
</tr>
<tr>
<td>3</td>
<td>Piccolo General Purpose I/O (GPIO) programming</td>
<td>Lab 1 – Introduction, Coding in C</td>
</tr>
<tr>
<td>4</td>
<td>Piccolo Interrupt Sources</td>
<td>Lab 2 - GPIO</td>
</tr>
<tr>
<td>5</td>
<td>Piccolo analog to digital converter (ADC)</td>
<td>Lab 3 - Interrupts</td>
</tr>
<tr>
<td>6</td>
<td>Piccolo PWM signal generating module</td>
<td>Lab 4 – ADC</td>
</tr>
<tr>
<td>7</td>
<td>Piccolo QEP module, Stepper motors</td>
<td>Lab 5 – PWM &amp; DAC</td>
</tr>
<tr>
<td>8</td>
<td><strong>Exam #1</strong></td>
<td>None</td>
</tr>
<tr>
<td>9</td>
<td>Electric motor theory (DC, Synchronous and Induction motors)</td>
<td>Lab 6 – Stepper motor drive</td>
</tr>
<tr>
<td>10</td>
<td>Electric motor theory</td>
<td>Lab 6 - continued</td>
</tr>
<tr>
<td>11</td>
<td>Electric motor theory</td>
<td>Lab 7 - DC motor control</td>
</tr>
<tr>
<td>12</td>
<td>Electric motor theory</td>
<td>Lab 7 - continued</td>
</tr>
<tr>
<td>13</td>
<td>Advanced motor control algorithms</td>
<td>Lab 8 - BLDC motor drive</td>
</tr>
<tr>
<td>14</td>
<td><strong>Exam #2</strong></td>
<td>Lab 8 - continued</td>
</tr>
</tbody>
</table>

Other Pertinent Course Information

**Lab Usage Policy**
- Lab will be open for groups working only on the course material
- Turn off equipment before you leave
- Lab is not open to work on other class material
- Lab is not open during other scheduled lab times even if there are open benches
- Lab will be closed if it becomes trashed out or if the door is found propped open
- Please make up missed or incomplete labs on your own time
- Please email your TA when using the lab outside of your scheduled lab time

**Lab Reports**
- Reports are to be done in the same pairs that the labs are done in
- Reports are due at the beginning of your scheduled lab time the week I specify
Outline for Lab Reports

- Title Page
- Overview – covers the introduction and the general procedure of any tasks, any difficulties (not hardware related) in getting code to work, and any equations and calculations used during lab
- Applications – a good paragraph or two covering general uses to more specific applications as the lab progresses
- Flowchart – for each task create a flowchart, either NEATLY drawn by hand or computer-drafted
- Code WITH COMMENTS
- Get checked off once you have completed lab, half of each lab grade will be completion

Lab reports should follow the general guidelines of TECHNICAL writing:
1. Do not use 1st or even 2nd person in any writing
2. Equations should be typed out using a program such as Equation Editor
3. Formatting for symbols should be used such as Greek letters, subscripts, etc.
4. Waveforms and screenshots are not simply stapled to the back of the report. They should be pasted within the text of the document close to the section where they are referenced. They should be labeled on the bottom with smaller font in bold.

Check TAMU Email accounts and eCampus page often for announcements.

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Academic Integrity

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

Plagiarism will NOT be tolerated. Attempts at having another student do your work will result in a zero for that work for the student copying and the student who is doing the copying. Further penalties may apply, especially with repeat offenses.

For additional information please visit: http://aggiehonor.tamu.edu
Course title and number  ECEN 442 DSP-Based Electromechanical Motion Control
Term (e.g., Fall 200X)  Fall 2016
Meeting times and location  TBD

Course Description and Prerequisites
Overview of energy conversion and basic concepts on electromechanical motion devices; different control strategies including the solid-state drive topologies; for every electromechanical motion device, its DSP control implementation discussed and implemented in the lab. Prerequisites: Grade of C or better in ECEN 314; junior or senior classification.

Learning Outcomes
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- Understand and control permanent magnet brushless dc motors
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</tr>
<tr>
<td>7</td>
<td>Piccolo QEP module, Stepper motors</td>
<td>Lab 5 – PWM &amp; DAC</td>
</tr>
<tr>
<td>8</td>
<td><strong>Exam #1</strong></td>
<td>None</td>
</tr>
<tr>
<td>9</td>
<td>Electric motor theory (DC, Synchronous and Induction motors)</td>
<td>Lab 6 – Stepper motor drive</td>
</tr>
<tr>
<td>10</td>
<td>Electric motor theory</td>
<td>Lab 6 - continued</td>
</tr>
<tr>
<td>11</td>
<td>Electric motor theory</td>
<td>Lab 7 - DC motor control</td>
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<td>12</td>
<td>Electric motor theory</td>
<td>Lab 7 - continued</td>
</tr>
<tr>
<td>13</td>
<td>Advanced motor control algorithms</td>
<td>Lab 8 - BLDC motor drive</td>
</tr>
<tr>
<td>14</td>
<td><strong>Exam #2</strong></td>
<td>Lab 8 - continued</td>
</tr>
</tbody>
</table>

**Other Pertinent Course Information**

**Lab Usage Policy**

- Lab will be open for groups working only on the course material
- Turn off equipment before you leave
- Lab is not open to work on other class material
- Lab is not open during other scheduled lab times even if there are open benches
- Lab will be closed if it becomes trashed out or if the door is found propped open
- Please make up missed or incomplete labs on your own time
- Please email your TA when using the lab outside of your scheduled lab time

**Lab Reports**

- Reports are to be done in the same pairs that the labs are done in
- Reports are due at the beginning of your scheduled lab time the week I specify
Outline for Lab Reports

- Title Page
- Overview – covers the introduction and the general procedure of any tasks, any difficulties (not hardware related) in getting code to work, and any equations and calculations used during lab
- Applications – a good paragraph or two covering general uses to more specific applications as the lab progresses
- Flowchart – for each task create a flowchart, either NEATLY drawn by hand or computer-drafted
- Code WITH COMMENTS
- Get checked off once you have completed lab, half of each lab grade will be completion

Lab reports should follow the general guidelines of TECHNICAL writing:
1. Do not use 1st or even 2nd person in any writing
2. Equations should be typed out using a program such as Equation Editor
3. Formatting for symbols should be used such as Greek letters, subscripts, etc.
4. Waveforms and screenshots are not simply stapled to the back of the report. They should be pasted within the text of the document close to the section where they are referenced. They should be labeled on the bottom with smaller font in bold.

Check TAMU Email accounts and eCampus page often for announcements.

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

Academic Integrity

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

Plagiarism will NOT be tolerated. Attempts at having another student do your work will result in a zero for that work for the student copying and the student who is doing the copying. Further penalties may apply, especially with repeat offenses.

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

Form Instructions

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

2. Request submitted by (Department or Program Name):
   Department of Electrical and Computer Engineering

3. Course prefix, number and complete title of course:
   ECEN 767 Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems

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

5. Prerequisite(s):
   Graduate classification or approval of instructor.
   Cross-listed with: ECEN 467

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

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

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

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

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

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

12. M.S., M.E., Ph.D. in ELEN or CEEN

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

<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>ECE Code</th>
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<td>17</td>
</tr>
</tbody>
</table>

Approval recommended by:

Joe Silva-Martinez
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date
Chair of College Date

Submitted to Coordinating Board by:

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 07/14
Course title and number | Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems  
ECEN 767

Term | Spring TBA

Lecture times and location | TR 2:20-3:35PM, JEB 7xx

Laboratory Times |
Section 501/601: TBD
Section 502/602: TBD
Section 503/603: TBD
Section 504/604: TBD
Section 505/605: TBD
Section 506/606: TBD

Official Class Syllabus | Posted on ecampus.tamu.edu

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

Prerequisites: Graduate classification or approval of instructor.

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

Instructor Information

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

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

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

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

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

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

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

Academic Integrity

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

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

Form Instructions

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

2. Request submitted by (Department or Program Name): Department of Materials Science and Engineering

3. Course prefix, number and complete title of course: MSEN 617 Crystallography and Crystal Structure Determination

4. Catalog course description (not to exceed 50 words):
Crystal structure and determination; symmetry operations in point group and space group; reciprocal lattice and kinematical diffraction theory; structure determination by X-ray diffraction and transmission electron microscopy (TEM).

5. Prerequisite(s):

<table>
<thead>
<tr>
<th>Knowledge of calculus and vector algebra; graduate classification</th>
</tr>
</thead>
</table>

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  ☐ Pass/Fail (CLAST)

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)

M. Engr., M.S., Ph.D., Materials Science and Engineering

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

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

13. Prefix  Course #  Title (excluding punctuation)

<table>
<thead>
<tr>
<th>Lec.</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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<td>1864</td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

Approval recommended by:

Dr. Miladin Radovic  Date  06/1/15

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

Chair, College Review Committee  Date  06/1/15

Dean of College  Date  06/1/15

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  07/15
MSEN 617
Crystallography and Crystal Structure Determination
Spring 2015
Credits: 3

Instructor: Li Liu
Email: li.liu@tamu.edu
Office Location: 415 MEOB
Office Phone: 979-458-1090
Office Hours: TBD
Meeting Time: TBD
Meeting Location: TBD

Course Prerequisites:
Knowledge in calculus and vector algebra

Course Description:
This course focuses on crystal structure and its determination. Symmetry operations in point group and space group are introduced first, followed by the reciprocal lattice and the kinematical diffraction theory. The second part of the class will teach the structure determination by x-ray diffraction and transmission electron microscopy (TEM).

Learning outcomes:
By the end of this course, students will be able to:
1. Identify the symmetry and symmetry operations.
2. Use basic structural concepts to describe the crystal structure.
3. Understand the reciprocal lattice and its applications in diffraction.
4. Understand the kinematical theory of diffraction and apply it to x-ray diffraction.
5. Understand the contrast in TEM direct and diffraction imaging.

Course Schedule:
Week 1: Elements of crystals: Point group, unit cell, and crystal lattice
Week 2: Elements of crystals: Point group, unit cell, and crystal lattice
Week 3: Space group: symmetry and nomenclature in space group
Week 4: Space group: examples
Week 5: Space group: applications in crystal structure
Week 6: Basic x-ray Physics: Emission/Adsorption/Reflection of x-rays
Week 7: Reciprocal lattice
Week 8: Kinematical theory of diffraction
Week 9: X-ray diffraction: powder diffraction
Week 10: X-Ray diffraction: structure determination by powder diffraction
Week 11: X-ray diffraction: single crystal diffraction
Week 12: Transmission electron microscopy: direct imaging
Week 13: Transmission electron microscopy: dynamics diffraction theory
Week 14: Transmission electron microscopy: Imaging by diffraction

Reference Books:
Leonid V. Azároff, Elements of X-Rays Crystallography, McGraw-Hill

The chosen chapters of the first textbook will be photocopied and handed out to the class since this book is not available for purchase. The second textbook can be downloaded from university library website.

The reference books are supplementary to the lecture note. The student is required to master the material in the notes and the related material in the text books.

Examinations: Midterm and comprehensive final examination.
Problems: problem sheets will be assigned through emails.

Communication: Problem sheets and class notes will be sent to each student by e-mail. Questions on course material may be sent to Dr. Liu by e-mail.

Grading:

<table>
<thead>
<tr>
<th></th>
<th>points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>14</td>
</tr>
<tr>
<td>Midterm exam</td>
<td>36</td>
</tr>
<tr>
<td>Final exam</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
</table>

The final weighted average of each student will be calculated based on the indicated grade distribution. The letter grade will be assigned by the following criterion:
A>= 90; 80 ≤ B<90; 70≤ C< 80; 60≤ D<70; F<60

Grading will not be based on a curve or on normal distribution.

Americans with Disabilities Act (ADA) Policy statement: The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in room B118 Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.
Class form available at http://attendance.tamu.edu or (II.) Confirmation of visit to a health care professional affirming date and time of visit.

7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.
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 Veterinary Pathobiology

3. Course prefix, number and complete title of course:
   VPAT 610 Cell Mechanisms of Disease

4. Catalog course description (not to exceed 50 words):
   Cellular mechanisms, morphologic presentations and clinical presentations of illustrative disease processes. Prerequisites: Enrollment as a graduate student in BIMS, VTPB or BMEN, and permission of instructor.

5. Prerequisite(s):
   Permission of instructor.
   Cross-listed with:  
   Stacked with: VTPB 410
   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)

   Graduate students in BIMS, VTPB, BMEN

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

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

13. Prefix  Course #  Title (excluding punctuation)
   VPAT  610  Cell Mechanisms of Disease

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  ECE Code
   3.00  0.00  0.00  3.00  51.2505  2907  15 - 16  0  0  3  6  3  3  2

   Approval recommended by:
   Dr. Roger Smith III  5/14/2015
   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date
   Dr. Jane Welsh  5/31/15
   Dr. Jane Welsh  5/31/15
   Department Head or Program Chair (Type Name & Sign)  Date
   Dean of College  Date
   (if cross-listed course)

   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 – 07/14
VPAT 610, Special Topics in Cell Mechanisms of Disease
Fall Semester, 2015

General Course Description and Goals:
A special-topics graduate course in the basic cellular mechanisms and general manifestations of disease. Clinical and anatomical/morphological aspects of various diseases are used for illustration. Upon completion of this course, the student will have a basic medical vocabulary, understand the basic mechanisms of disease, and have an understanding of the descriptive terms used in pathology.

Instructor:
B.R. Weeks, DVM, PhD
Diplomate, American College of Veterinary Pathologists (ACVP)
Professor, Department of Veterinary Pathobiology
Office: 54XB College of Veterinary Medicine
E-mail: bweeks@cvm.tamu.edu

Prerequisites:
Graduate Student Enrollment in BIMS, VTPB, or BMEN curriculum and permission of instructor

Class meetings:
Attendance at all scheduled class meetings is expected. Per University policy, attendance will be checked and recorded.

Tuesday and Thursday,
Room ????, College of Veterinary Medicine

Schedule of Events:

First class meeting
First Examination (100 pts.)
Second Examination (100 pts.)
Term Project Due (100 points)
Last class meeting
Final Examination (100 pts.)

September 1
October 6
November 10
November 10
December 8
Set by the Registrar's office

Textbook and Course Materials:
No textbook is required. The Introductory / General Pathology sections of any current medical Pathology textbook would provide good supplemental reading. A printed set of class notes is available, in the Media Resources department. Reading assignments from various scientific literature sources are an option.

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

The first two examinations will take the place of regularly-scheduled lectures. The third, final exam will be administered as scheduled by the Office of the Registrar, during "finals week". Examinations may consist of any combination of multiple-choice questions, written short / long answers, True / False, matching, etc. Examination topics may include any class activity: regular lectures, guest lectures, reading assignments, demonstrations, video, in-class discussions, etc. All examinations are comprehensive, due to the fact that concepts presented throughout the course are interrelated.

In the event of a student's excused absence from an exam, a make-up examination will provided in written format (see below). Unexcused absence from an examination will result in a grade of "zero" (no grading points) for that examination. The final examination is mandatory, comprehensive, and equal in value to the others (100 points). The semester course grade is based upon the student's total score (points accumulated) for the 3 examinations and the required Term Paper / Project.

Term Paper or Project:

In addition to regularly-scheduled examinations, a term paper or project will be required. This project or paper will be in a topic relevant to the course and to the student's area of interest. The topic and scope of the project must be pre-approved by the instructor. The project / paper will be worth up to 100 grading points.

Course Grading Scale:

(400 total grading points are possible).
360 to 400 points: A
320 to 359 points: B
280 to 319 points: C
240 to 279 points: D
239 or fewer points: F

Missed Examinations:

The Fall 2015 class meeting and examination schedule is included in this syllabus. Notify Dr. Weeks immediately if you must request an excused absence from an examination. Refer to the Texas A&M University “Student Rules” (available online at http://student-rules.tamu.edu/rule07) for explanations of attendance policy, excused vs. unexcused absences, and make-up exam policies. Note that class assignments and examinations in other courses (other than specific, defined circumstances for final examinations) are not an excuse for missing an examination in this course. Requests for alternative final examination time/date are made through the student's College administrative office.

Excused absences from examinations must be made-up promptly at a time and place agreed upon between student and instructor. Makeup examinations will be in written format. A student's unexcused absence from an examination results in a grade of "zero" (no grading points) for that examination.

Questions about Grading:

Any question about grading on an examination must be brought to the instructor's attention within 1 week after grades for the examination are posted or otherwise made available to the class. If scanned grading forms are used, the answer marked on the scanned form is your response. Unmarked responses and multiple responses are graded as incorrect.

Aggie Code of Honor

For many years Aggies have followed a Code of Honor, which is stated in this very simple verse: An Aggie does not lie, cheat or steal or tolerate those who do. http://aggiehonor.tamu.edu
Class Meeting and Examination Schedule:  Fall Semester, 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 1</td>
<td>Introductions, Syllabus, Background information.</td>
</tr>
<tr>
<td>September 3</td>
<td>Sectioning and Staining, Microscopy Techniques</td>
</tr>
<tr>
<td>September 8</td>
<td>Cell Injury: Reversible injury</td>
</tr>
<tr>
<td>September 10</td>
<td>Lethal Cell Injury and Cell Death</td>
</tr>
<tr>
<td>September 15</td>
<td>Necrosis</td>
</tr>
<tr>
<td>September 17</td>
<td>Pigments</td>
</tr>
<tr>
<td>September 22</td>
<td>Pigments / Tissue Deposits</td>
</tr>
<tr>
<td>September 24</td>
<td>Tissue Deposits / Cellular Adaptation</td>
</tr>
<tr>
<td>September 29</td>
<td>Tissue Adaptation and Growth Disturbances</td>
</tr>
<tr>
<td>October 1</td>
<td>Growth Disturbances</td>
</tr>
<tr>
<td>October 6</td>
<td>(Tuesday) Test One</td>
</tr>
<tr>
<td>October 8</td>
<td>Inflammation</td>
</tr>
<tr>
<td>October 13</td>
<td>Inflammation</td>
</tr>
<tr>
<td>October 15</td>
<td>Inflammation</td>
</tr>
<tr>
<td>October 20</td>
<td>Wound Healing</td>
</tr>
<tr>
<td>October 22</td>
<td>Basic Immunology Concepts</td>
</tr>
<tr>
<td>October 27</td>
<td>Basic Immunology Concepts</td>
</tr>
<tr>
<td>October 29</td>
<td>Immune-mediated Injury</td>
</tr>
<tr>
<td>November 3</td>
<td>Immune-mediated Injury</td>
</tr>
<tr>
<td>November 5</td>
<td>Immunological Diseases</td>
</tr>
<tr>
<td>November 10</td>
<td>(Tuesday) Test Two &amp; Term Paper / Project Due.</td>
</tr>
<tr>
<td>November 12</td>
<td>Immune Deficiency Diseases</td>
</tr>
<tr>
<td>November 17</td>
<td>Disturbances of Blood Flow</td>
</tr>
<tr>
<td>November 19</td>
<td>Disturbances of Blood Flow</td>
</tr>
<tr>
<td>November 24</td>
<td>Clotting and Thrombosis</td>
</tr>
<tr>
<td>November 26</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 1</td>
<td>Clotting and Thrombosis</td>
</tr>
<tr>
<td>December 3</td>
<td>Neoplasia</td>
</tr>
<tr>
<td>December 8</td>
<td>Neoplasia (last class meeting)</td>
</tr>
<tr>
<td>December X</td>
<td>Final Examination</td>
</tr>
</tbody>
</table>

Room
Course Changes
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, DPA)
2. Request submitted by (Department or Program Name): School of Public Health
3. Course prefix, number and complete title of course: HPCH 695 Doctoral Capstone

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

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

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

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

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

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

9. Complete current course title and current catalog course description: Doctoral Capstone. Credit 3 to 9. Doctoral Dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only. May be repeated for credit. Prerequisite: Approval of instructor.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Doctoral Capstone. Credit 3 to 9. Doctoral Dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only. May be repeated for credit. Prerequisite: Approval of instructor.

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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<tbody>
<tr>
<td>HPCH</td>
<td>695</td>
<td>DOCTORAL CAPSTONE</td>
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<table>
<thead>
<tr>
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<th>Lab</th>
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<th>SCH</th>
<th>CIP and Fund Code</th>
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   b. Change to:

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<th>Title (excluding punctuation)</th>
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</thead>
<tbody>
<tr>
<td>HPCH</td>
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<tr>
<th>Lect.</th>
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<tr>
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<td>512212</td>
<td>1418</td>
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<td>0 0 3 6 3 2</td>
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</tbody>
</table>

Approval recommended by:

[Signatures and dates]

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

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

2. Request submitted by (Department or Program Name):  
School of Public Health

3. Course prefix, number and complete title of course:  
PHEB 695 Doctoral Capstone

4. Change requested
a. Prerequisite(s): From:  
To:  

b. Withdrawal (reason):  

c. Cross-list with:  

   Cross-listed courses required by signatures 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:  
Doctoral Capstone. Credit 3 to 9. Doctoral Dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):  
Doctoral Capstone. Credit 3 to 9. Doctoral Dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only.

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
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</tr>
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<tbody>
<tr>
<td>PHEB</td>
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<td>DOCTORAL CAPSTONE</td>
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<th>Lab</th>
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b. Change to:

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<thead>
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<td>261309</td>
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</table>

Approval recommended by:

Dennis Gorman, PhD
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Dean of College  Date

Submitted to Coordinating Board by:

Chair, GC or UCC  Date

Associate Director, Curricular Services  Date

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

Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

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

2. Request submitted by (Department or Program Name):
   School of Public Health

3. Course prefix, number and complete title of course:
   PHED 695 Doctoral Capstone

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

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-contro-led-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   Doctoral Capstone. Credit 1 to 9. Research for doctoral dissertation. Course may be repeated for credit. Satisfactory/Unsatisfactory grade option only. Prerequisites: Approval of student's academic advisor and department head.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Doctoral Capstone. Credit 1 to 9. Research for doctoral dissertation. Course may be repeated for credit. Satisfactory/Unsatisfactory grade option only. Prerequisites: Approval of student's academic advisor and department head.

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<th>GPI and Fund Code</th>
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   b. Change to:

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<th>Prefix</th>
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<thead>
<tr>
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<td>512201</td>
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<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Virender Sharma, PhD
Department Head or Program Chair (Type Name & Sign) Date: 6/4/2015
Chair, College Review Committee Date: 6/1/15

Department Head or Program Chair (Type Name & Sign) Date: 6/1/15
(If cross-listed course)

Submitted to Coordinating Board by:

Chair, GC or UCC Date: 6/1/15

Effective Date

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

Form Instructions
1. Course request type:
   □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): School of Public Health
3. Course prefix, number and complete title of course: PHPM 695 Doctoral Capstone

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:
   □ 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: Doctoral Capstone. Credit 1 to 9. Doctoral dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only. May be repeated for credit. Prerequisite: Approval of instructor.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Doctoral Capstone. Credit 1 to 9. Doctoral dissertation or equivalent project(s). Satisfactory/Unsatisfactory grade option only. May be repeated for credit. Prerequisite: Approval of instructor.

10. As currently in course inventory:
   a. PHPM 695 DOCTORAL CAPSTONE
   b. PHPM 791 DOCTORAL CAPSTONE

Approval recommended by:
Dr. Michael A. Morrissey
Department Head or Program Chair (Type Name & Signature) Date
Chair, College Review Committee Date
Dean of College Date

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

Associate Director, Curricular Services Date

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

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

2. Request change for:

   ☑ Degree Program ☐ Minor ☐ Certificate

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

   Program Designation and Name

   Oceanography

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

   3+2 Program (BS in Environmental Geosciences + MS in Oceanography)

5. Brief description of change:

   Corrected program undergraduate credits to 120 hours.
   Renamed it as a Fast Track 5 year Dual Degree Program rather than 3+2.
   Application and admissions guidelines have also been changed to include a new GPR requirement of 3.0; to have only one admission period during the summer after a students junior year; and, the GRE will no longer be required.

6. Rationale for change:

   The undergraduate credits were shown as 108 in the version that was approved, and we are correcting it to show the full 120 hours. We have also renamed it as a Fast Track 5 year Dual Degree Program rather than 3+2. This is more in line with other programs on campus. The application and admissions guidelines have also been changed to be more representative of the students we are trying to attract into the program.

---

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

7. a. Proposed curriculum attached. ☑ Yes ☐ No

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

   c. Current Howdy degree evaluation with handwritten edits attached. ☑ Yes ☐ No

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

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? ☐ Yes ☑ No

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

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

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

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

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

Approval recommended by:

[Signatures]

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 435-8201 or sandra.williams@tamu.edu
Curricular Services - 04/14
MEMORANDUM

To: Dr. Cluis Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences

To: Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences

From: Dr. Debbie Thomas, Interim Department Head, Oceanography

Dr. Christian Brannstrom, Director Environmental Programs, College of Geosciences

RE: Revisions to the Joint degree program between Oceanography and Environmental Geosciences

I have attached a revision to the 3+2 program for ENGS and Ocean Sciences and Technology. It has been modified to correct the number of credits listed for the undergraduate and graduate degrees. It has been renamed as “Fast Track Dual Degree Program for Environmental Geosciences (B.S.) and Oceanography (non-thesis M.S.)”. The minimum GPR has been changed to 3.0, and the GRE is not required for admission to the program.

Please let me know if any additional information is needed.
Fast Track Dual Degree Program for Environmental Geosciences (B.S.) and Oceanography (non-thesis M.S.)

Purpose:

The Fast Track Program offers motivated and exceptional students the opportunity to achieve aspirations in an efficient program at Texas A&M, completing the Bachelor of Science (B.S.) degree in the Environmental Geosciences program and the Oceanography non-thesis M.S. degree in 5 years. There will be only two courses used for dual credit in this program. There is a total of 150 hours of coursework. The concurrent degree program will enable these motivated students to coordinate the required B.S. coursework (114 undergraduate credit hours plus 6 dual credit graduate courses) and non-thesis M.S. coursework (36 credit hours including the 6 dual credit graduate courses) to complete the required credit hours for each degree without diminishing scope or quality of work and within 5 years.

Application and Eligibility:

- Applications to the Fast Track program will be submitted by July 1 after the completion of the student’s junior year. Applications submitted after that time will be evaluated on a case by case basis.
- Applicants must have a minimum undergraduate GPR of 3.0. Applicants must also earn a C or better in all Chemistry, Calculus and Physics courses. Once admitted to the program, students must maintain a minimum 3.0 GPR.
- A faculty advisor will be assigned to each student. Students may seek additional mentors, but a formal committee is not required.
- Students admitted into the Fast Track program must finish the entire 150 credit hours to obtain both the Bachelor’s and Master’s degrees. These students will be conferred with two degrees once they complete the 5th year of the concurrent program.
- Students admitted to the program will change from U4 to G7 status when they are admitted having completed at least 96 hours (end of spring semester, year 3).
- Students not accepted or not allowed to continue with the Fast Track Program will complete the 120 hour Bachelor’s degree under the standard 4 year curriculum. These students may still apply to the traditional graduate program.
- Students will graduate at the completion of the 5th year in the Fast Track Program coursework (150 credit hours) with both Bachelor’s and Master’s degrees. Students will complete the coursework in May of the 5th year.
Draft Degree Plan:

<table>
<thead>
<tr>
<th>Year 1 – Semester 1</th>
<th>Year 1 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 105 Intro to Geosciences (3)</td>
<td>POLS 206 American National Government (3)</td>
</tr>
<tr>
<td>BIOL 111 Introductory Biology I (4)</td>
<td>BIOL 112 Introductory Biology II (4)</td>
</tr>
<tr>
<td>MATH 151 Engineering Math I (4)</td>
<td>MATH 152 Engineering Math II (4)</td>
</tr>
<tr>
<td>ENGL 104 Comp and Rhetoric (3)</td>
<td>History elective (3)</td>
</tr>
<tr>
<td>GEOS First Year Seminar (1)</td>
<td>Humanities elective (3)</td>
</tr>
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<td><strong>Total: 15 Credit hours (undergraduate)</strong></td>
<td><strong>Total: 17 Credit hours (undergraduate)</strong></td>
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<table>
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<tr>
<th>Year 2 – Semester 1</th>
<th>Year 2 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Geoscience course and associated lab (4)</td>
<td>Introductory Geoscience course and associated lab (4)</td>
</tr>
<tr>
<td>CHEM 101/111 Fundamental Chemistry (4)</td>
<td>CHEM 102/112 Fundamental Chemistry II (4)</td>
</tr>
<tr>
<td>GEOG 201 Intro to Human Geography (3)</td>
<td>Communications elective (3)</td>
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<tr>
<td>History elective (3)</td>
<td>POLS 207 State and Local Government (3)</td>
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<tr>
<td>Environmental Policy elective (3)</td>
<td>Technical elective (3)</td>
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<tr>
<td><strong>Total: 17 Credit hours (undergraduate)</strong></td>
<td><strong>Total: 17 Credit hours (undergraduate)</strong></td>
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<tr>
<th>Year 3 – Semester 1</th>
<th>Year 3 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>STAT 303 Statistical Methods (3)</td>
<td>GEOL 420 Environmental Geology (3)</td>
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<tr>
<td>PHYS 218 Mechanics (4)</td>
<td>Environmental Policy elective (3)</td>
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<tr>
<td>GEOG 330 Resources and Environment (3)</td>
<td>Visual and Performing Arts elective (3)</td>
</tr>
<tr>
<td>Course from Coastal &amp; Marine Environments theme (3)</td>
<td>PHYS 208 Electricity and Optics (4) [ENGS tech elective]</td>
</tr>
<tr>
<td>Course from Coastal &amp; Marine Environments theme (3)</td>
<td>Course from Coastal &amp; Marine environments theme (3)</td>
</tr>
<tr>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
</tr>
</tbody>
</table>

**Admission Process**

**Apply:** End of junior year after 6 semesters; minimum GPR = 3.0.

**Decision:** August prior to starting graduate course work in Fall of Senior Year.

**Change** to graduate status (G7).

**Apply** for graduate degree plan upon approval of G7 status.
<table>
<thead>
<tr>
<th>Year 4 – Semester 1</th>
<th>Year 4 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 405 Environmental Geosciences (capstone experience) (3)</td>
<td>Technical elective (3)</td>
</tr>
<tr>
<td>GEOG 390 Principles of GIS (4) [ENGS tech elective]</td>
<td>Technical elective (3)</td>
</tr>
<tr>
<td>OCNG 604 Ocean Observing Systems (3)²,³</td>
<td>Course from Coastal &amp; Marine environments theme (3)²</td>
</tr>
<tr>
<td>[Supporting coursework; ENGS theme elective]</td>
<td>OCNG 657 Data Methods and Graphical Representation in Oceanography (3)⁴ [GEOS 470 substitute]</td>
</tr>
<tr>
<td>OCNG 608 Physical Oceanography (3)²,³,⁴</td>
<td>Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)⁴ (3)</td>
</tr>
<tr>
<td>[Supporting coursework; ENGS theme elective]</td>
<td>Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)⁴ (3)</td>
</tr>
<tr>
<td>Oceanography 603-Communicating Ocean Science (3)</td>
<td>Total: 18 credit hours (9 undergraduate, 9 graduate)</td>
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</table>

**Total: 16 credit hours (7 undergraduate, 6 dual undergrad/grad, 3 graduate)**

<table>
<thead>
<tr>
<th>Year 5 – Semester 1</th>
<th>Year 5 – Semester 2</th>
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<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Advanced specialized OCNG graduate course (3)</td>
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<td>Advanced specialized OCNG graduate course (3)</td>
<td>Advanced specialized OCNG graduate course (3)</td>
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<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Capstone experience II (non-thesis capstone course to be created) (3)</td>
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</table>

**Total: 9 credit hours (9 graduate)**

**Total undergraduate credit hours: 120**

**Total graduate credit hours: 36 (36 credits required for non-thesis MS)**

**Total credits actually taken: 150**

**Notes:**

1. Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.
2. If students use 9 credits of allowed OCNG courses (e.g. OCNG 401, OCNG 350, OCNG 451, OCNG 485) as Coastal and Marine theme electives, they will receive an OCNG minor with their ENGS B.S. If one of the Introductory Geoscience course and associated labs listed in year 2 is OCNG 251 with OCNG 252, then only 2 (6 credits) of the theme electives needs to be from OCNG to still get the minor.
3. These 2 graduate courses will be taken for dual undergraduate/graduate credit and will contribute to the minor.
4. Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 440/640; GEOS 470/OCNG 657).
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 6 hours of 484 credit may be used in this degree program.

Program:

<table>
<thead>
<tr>
<th>Program</th>
<th>BS ENGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus</td>
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<tr>
<td>College</td>
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<tr>
<td>Degree</td>
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Catalog Term: Fall 2014 - College Station
Evaluation Term: Fall 2014 - College Station
Expected Graduation Date: Fall 2014 - College Station
Request Number: 4
Results as of: Oct 14, 2014
Minors: Concentrations:

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Total Required: 120.00
Program GPA: Yes .00 .00
Overall GPA: No 2.00 .00
Transfer: 0.00 0.00

This is NOT an official evaluation.

Area Major Coursework (16.000 credits) - Not Met

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<th>Rule</th>
<th>Subject</th>
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</table>
| No   | AND      | F. Seminar 1hr

Select from GEOS 101 or GEOS 481.

Total Credits and GPA: 0.00 0.00

unofficial evaluation

Area Supporting Coursework (20.000 credits) - Not Met

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<th>Subject</th>
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<th>Low</th>
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<th>Required Courses</th>
<th>Term</th>
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<th>Title</th>
<th>Attribute</th>
<th>Credits</th>
<th>Grade</th>
<th>Source</th>
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</thead>
</table>
| No  | A         | Technical Elective 14hrs
Select from ATMO 321, 441, 464; GEOG 312, 361, 380, 390, 450, 462, 467, 475, 477; GEOL 306, 309, 330, 352, 401; GO NR 413; GCNS 401 |
| No   | AND      | B. Environment Policy Elect 6hrs
Select from AGEC 350; BESC 427; ECON 202, 203, 223, 425; GEOG 304, 306, 309, 401, 406, 430; GEOS 430; PHIL 314; POLS 347; RENR 420, 470; SOCI 328; URBN 301, 360, 371, 460 |

Total Credits and GPA: 0.00 0.00

Foot Track requires PHYS 211 and PHYS 208 one will fulfill Tech. Elective and the other will replace PHYS
unofficial evaluation

Area: Environmental Theme Electives (18.000 credits) - Not Met

Description: Select one of the following options for a total of 18 hrs:

* Cannot take OCNG 401 if already taken OCNG 251.

A. Biosphere 18 hrs.
   a. Take GEOG 335.
   b. Take GEOG 305.
   c. Take GEOG 420.
   d. Select the remaining 9 hours from: GEOG/GEOS 442, GEOG 435; GEOL 307; GEOS 411; OCNG 401*; BIOL 214, 357/358; GENE 302, 412; SCSC 301; SCSC/MEPS 316.

B. Climate Change 18 hrs.
   c. Select GEOG 410 or GEOS 444.
   d. Select the remaining 7 hours from: ATMO 324 or GEOG 324; ATMO 363, 463; GEOS or GEOG 442; GEOL 305, 306, 307, 451; GEOS 401, 410 or 444, 411, 484; OCNG 401*, 410, 440.

C. Coastal and Marine Environments 18 hrs.
   a. Take GEOG 370.
   b. Take OCNG 401*.
   c. Select remaining 12 hours from GEOG 331, 360; GEOL 306, 440; GEOS 401, 444, 484; OCNG 410, 420, 430, 440; WFS 418, 425, 428.

   a. Take GEOG 430.
   b. Take GEOG 430.
   c. Select remaining 12 hours from ATMO 362, 363; GEOS 309, 360, 401; GEOL 301, 410, 440, 451; GEOS 401, 444, 484; HRPN 361; WFS 420.

E. Water 18 hrs.
   a. Take GEOG 434.
   b. Take GEOG 430.
   c. Select remaining 11 hours from AGSM 335, 337; ATMO 251, 324 or GEOG 324; ATMO 335, 352, 443; GEOG 331, 360; GEOL 440, 451; GEOS 401, 484; OCNG 401*, 440; SCSC 455, 458; WFS 412.

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Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Communication (6.000 credits) - Not Met

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Select 3 hours from any courses with the Communication attribute 'COMM'.

Total Credits and GPA 0.000 0.00

unofficial evaluation

Area: Mathematics (11.000 credits) - Not Met

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Total Credits and GPA 0.000 0.00

unofficial evaluation

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### Area Life and Physical Sciences (28.000 credits) - Not Met

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<td>Select from ATMO 201/202; GEOG 203/213; GEOL 101 or OCNG 251/252.</td>
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<td>Intro Geosciences Course 4hrs</td>
<td>Select from ATMO 201/202; GEOG 203/213; GEOL 101 or OCNG 251/252 not used in Rule A.</td>
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Unofficial Evaluation

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

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<th>Rule</th>
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Unofficial Evaluation

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

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<td>Select three hours from any course with the Creative Arts attribute [CRFA]</td>
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Unofficial Evaluation

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

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Unofficial Evaluation

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

**Description:** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
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<th>Condition</th>
<th>Rule</th>
<th>Subject Attribute</th>
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<th>Required Courses</th>
<th>Term</th>
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<td>American History Reqmt 6hrs</td>
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<td>B.</td>
<td>Political Science Reqmt 6hrs</td>
<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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Total Credits and GPA 0.000 .00

unofficial evaluation

Area: University Writing Requirement - Not Met

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<td>Two courses required. Only sections of ATHE 456, 450, 463, 491; GEOG 300, 304, 310, 404, 430, 435, 476, 491; GEOL 301, 311-312, 410 420, 440, 491; GEP 491; GEOG 405, 491; UGST 491 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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<th>Condition</th>
<th>Rule</th>
<th>Subject Attribute</th>
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<th>Required Courses</th>
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<td>Select from courses with the International and Cultural Diversity attribute (UCD) (except sections of BUSN 299 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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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.

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unofficial evaluation

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Includes: ATMO 201, 202; GEOG 201, 203, 330; GEOL 101, 104, 420; GEOG 105, 405, 470, 181; GCNC 251, 252; UGST 191

unofficial evaluation

Back to Display Options

Print
Special Consideration
Items
June 11, 2015

MEMORANDUM

TO:         Dr. Karen L. Butler-Purry  
            Associate Provost for Graduate & Professional Studies

FROM:       Mark Zoran  
            Associate Dean, College of Science

SUBJECT: Dual Degree in Statistics with Renmin University of China

I have attached a Memorandum of Agreement for a dual degree between the Department of Statistics in the College of Science of Texas A&M University and the Institute of Statistics and Big Data of Renmin University of China. The dual degree will be built upon the existing Doctor of Philosophy degree in Statistics offered by Texas A&M University, and the existing Doctor of Philosophy degree in Statistics offered by Renmin University of China. This dual degree program will serve to further the educational and research collaborative relationships between these two academic units. The attached Memorandum of Agreement between the two universities was prepared in accordance with the Agreements Involving Joint And Dual Academic Awards Policy and Procedures, issued by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Please note that this program involves delivery of existing PhD in Statistics without modification of the curriculum.

I would request that this proposal be included on the agenda for the July 2015 meeting of the GC.

Please let me know if you have any questions.
Justification for Memorandum of Agreement
Doctor of Philosophy in Statistics Dual Degree Program

Institute of Statistics and Big Data
Renmin University of China

And

Department of Statistics
College of Science
Texas A&M University

Background:

Renmin University of China has the largest and one of the top statistics program in China and is the leader in the field of applied statistics. It has extensive collaborations with the Ministry of Education and the National Bureau of Statistics of China. It currently has 30 faculty and will recruit 20 more from North America in the next few years. The Statistics Department of Texas A&M University is one of the leading statistics departments in the US. Its faculty members have won international recognition for their contributions to many parts of statistical science. The high quality of its graduate program has earned it top rankings consistently in the past years. In recognition of the complementary research and educational strengths of each university, it is evident that increasing their educational and research collaborations would be to the mutual benefit of both institutions.

Area of Cooperation:

Department of Statistics of Texas A&M University and Institute of Statistics and Big Data of Renmin University of China propose to offer a dual degree that will serve to further their educational and research collaborative relationships in areas such as externally funded research and joint publications. The dual degree will be built upon the existing Doctor of Philosophy degree in Statistics offered by Texas A&M University, and the existing Doctor of Philosophy degree in Statistics offered by Renmin University of China. The program will be launched once the academic elements necessary to create it have been formulated and agreed to by appropriate faculty and administrators at both institutions. The Memorandum of Agreement was prepared in accordance with the Agreements Involving Joint And Dual Academic Awards Policy and Procedures, issued by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).
MEMORANDUM OF AGREEMENT
For Dual Degree of Doctor of Philosophy in Statistics

Between

INSTITUTE OF STATISTICS AND BIG DATA
RENMIN UNIVERSITY OF CHINA
Beijing
People’s Republic of China

And

DEPARTMENT OF STATISTICS
COLLEGE OF SCIENCE
TEXAS A&M UNIVERSITY
College Station, Texas
United States of America

This Memorandum of Agreement between Renmin University of China and Texas A&M University applies only to the Institute of Statistics and Big Data at Renmin University of China and the Department of Statistics in the College of Science at Texas A&M University.

Whereas the above named institutions are joined in an agreement of mutual cooperation, and the above named academic units recognize that an agreement of cooperation would be of mutual benefit and would serve to implement a dual degree program leading to the degree of Doctor of Philosophy in Statistics at Texas A&M University and Doctor of Philosophy in Statistics at Renmin University of China.

Academic Program Description
Texas A&M University (TAMU) and Renmin University of China (RUC) will offer a dual degree under the terms set out below to further their educational and research collaborative relationships. This degree will consist of the existing Doctor of Philosophy degree in Statistics offered by Texas A&M University, and the existing Doctor of Philosophy degree in Statistics offered by Renmin University of China. The program will be launched once approval of the dual degree by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) has been obtained.

I. Admission and Recruitment

A. Admission Requirements:

The normal requirement for admission to graduate studies at both Texas A&M University and Renmin University of China is a scholastic record that, over a master’s degree program or a four-year undergraduate degree program, gives evidence of the applicant’s
ability to do successful Ph. D. level graduate work. Successful applicants for the dual degree program will meet the following minimum admission requirements:

a) If entering with a bachelor’s degree as the highest earned degree, candidates must have a GPA of 3.00 (equivalent to B) or higher in the last 60 hours of undergraduate work with a minimum overall GPA of 3.0.

b) If entering with a master’s degree as the highest earned degree, candidates must have a GPA of 3.25 or higher on the master’s degree program.

c) TOEFL score (a minimum of 80 on TOEFL iBT (550 paper-based)), GRE or GMAT scores, a statement of professional goals, and 3 recommendation letters.

B. Recruitment and Admission Process:

Recruitment and admission to the dual degree program will be a multi-stage process administered and coordinated by a Program Advisory Board that comprises four members, two designated by RUC and two designated by TAMU. At the first stage, each institution implements its own pre-selection of dual degree candidates from students within its graduate program and submits nominations to the Program Advisory Board. At the second stage, each nominated dual degree candidate must gain approval for admission from the Program Advisory Board and satisfy all admission requirements as outlined in the above section I.A.

C. Committees:

In order to satisfy the degree requirements at both RUC and TAMU, each dual degree student will have two programmatic committees, one mandated by degree requirements at RUC and one mandated by degree requirements at TAMU as described below.

a) The TAMU Dissertation Advisory Committee is comprised of a chairperson who is a member of the TAMU graduate faculty, a co-chair on the faculty at RUC and at least three other members of the TAMU graduate faculty, one of whom must be external to the degree program. Faculty members from RUC must be approved as members of the graduate faculty at TAMU at the appropriate level before they can serve as a co-chair. Application for election to the graduate faculty at TAMU is covered in the Texas A&M University rules as described on the website http://ogaps.tamu.edu.

b) The RUC Ph.D Advisory Committee is comprised of a major advisor, with a permanent academic faculty-level appointment on RUC faculty, a co-advisor on the Graduate Faculty at TAMU, and at least three other members of the RUC faculty, one of whom must be external to the degree program.

c) The Program Advisory Board consists of two representatives from each institution. Membership of the Program Advisory Board will be qualified faculty members who are appointed by the Dean of the College of Science at TAMU and the Dean of the Graduate School at RUC. The program will be reviewed annually including, but not limited to, the assessment and monitoring of the courses and components offered by the two institutions, their educational outcomes, the content and teaching methodologies of the courses, and the
qualifications of teaching faculty. Any modifications to the program must be approved by both institutions and the Program Advisory Board.

D. Student Financial Support

Each RUC-TAMU dual degree Ph.D. student will be considered for the standard financial support from both institutions on a competitive basis. Students shall pay the regular tuition and fees of the institution where they are in residence.

II. Program Requirements

A. Curricular design of the program:

Students will satisfy the requirements leading to the Ph.D. Degree in Statistics at Texas A&M University and the Ph.D. degree in Statistics at Renmin University of China. Each degree is awarded separately upon fulfilling the required coursework. As described below, each degree program consists of three central requirements: 1. core coursework; 2. qualifying and preliminary examinations; and 3. research and dissertation.

B. Requirements for the Ph.D. in Statistics at TAMU:

a) Each dual degree student must satisfy degree requirements for the Ph.D. at TAMU as detailed in the TAMU Graduate Catalog in effect at the time of admission and outlined below.

b) Each student must pass the TAMU Ph.D. Written Qualifying Examinations in Statistics according to the normal schedule determined by TAMU Department of Statistics.

c) Each student must pass an oral Preliminary Examination administered by the TAMU Dissertation Advisory Committee after completion of required coursework.

B.1) Coursework Requirements

a) Successful completion of core coursework for the Ph.D. in Statistics at TAMU.

b) Coursework taken at RUC for the dual degree program will be eligible for transfer credit at TAMU subject to satisfactory review and recommendation by the student’s advisory committee at TAMU and approval by the Office of Graduate and Professional Programs at TAMU. The Director of Graduate Studies in Statistics at TAMU will review the syllabi of all courses submitted for transfer credit from RUC to ensure that they meet the requirements for both TAMU and SACSCOC.

c) While in residence at RUC, dual degree students will be enrolled in an appropriate Study Abroad course section in order to satisfy the “continuous enrollment” requirement of TAMU. Each dual degree student must spend at least one year enrolled full-time in residence, and complete at least 33% of the required hours at TAMU in College Station, TX.

B.2) Dissertation Requirements
a) Each student will have a TAMU Dissertation Advisory Committee.
b) To enter into Candidacy for the Ph.D., each student must submit a written Dissertation Proposal approved by the TAMU Dissertation Advisory Committee after successful completion of the Written Qualifying Examination and the oral Preliminary Examination as stipulated above.
c) After completion and approval of the Ph.D. dissertation, each student will defend the dissertation through an Oral Final Examination administered by the student’s TAMU Dissertation Advisory Committee.
d) After a successful dissertation defense under B.2)c), the student will be awarded the degree from TAMU.

C. Requirements for the Ph.D. in Statistics at RUC:

a) Each dual degree student must satisfy degree requirements for the Ph.D. at RUC as detailed in the RUC Statistics Program Guide and outlined below.
b) Each student must pass the RUC Ph.D. Written Qualifying Examinations in Statistics according to the normal schedule determined by Institute of Statistics and Big Data.
c) Each student must pass an oral Preliminary Examination administered by the RUC Dissertation Advisory Committee after completion of required coursework

C.1) Coursework Requirements

a) Successful completion of core coursework for the Ph.D. in the Statistics program at RUC.
b) Coursework taken at TAMU will be eligible for transfer credit at RUC subject to RUC rules.
c) Each dual degree student must spend at least one year enrolled full-time in residence, and complete at least 33% of the required hours at RUC.

C.2) Dissertation Requirements

a) Each student will have a RUC Ph.D. Advisory Committee.
b) After completion and approval of the Ph.D. dissertation, each student will defend the dissertation through a Final Examination administered by the Graduate Committee at Institute of Statistics and Big Data.
c) After a successful dissertation defense under C.2)b), the student will be awarded the degree from RUC.
d) TAMU degree must be awarded prior to the RUC degree.

III. Academic Standing

a) To be eligible to take the oral dissertation defense and final oral dissertation defense examination at each institution, a GPA of 3.00 must be met at both TAMU and RUC.
b) Verification process for program completion: At RUC, the student’s Ph.D. Advisory Committee Chair and Graduate Committee at Institute of Statistics and Big Data shall verify the successful completion of the academic program. At TAMU, the student’s
Advisory Committee and the Office of Graduate and Professional Studies shall verify successful completion of the academic program.

c) Program time limits: All degree requirements must be completed within a period of six consecutive years from the date of beginning.

IV. Program Assessment

a) Program assessment will be undertaken annually by the Program Advisory Board in terms of progress towards the degree being made by students.
b) TAMU will ensure that all arrangements relating to the dual degree program comply with the requirements of the Texas Higher Education Coordinating Board and the Southern Association of Colleges and Schools Commission on Colleges, as indicated in the SACSCOC document “Agreements Involving Joint and Dual Academic Awards: Policies and Procedures.”
c) RUC will ensure that all arrangements relating to the dual degree program comply with the requirements of the Ministry of Education, People’s Republic of China.

V. Responsibility Sharing

a) No special funds have been allocated for this program, and courses will be taught by faculty in College Station as part of their regular teaching load. Financial responsibility for administrative costs associated with the program will be shared by both institutions and absorbed in their existing budgets.
b) Any modifications to the program must be approved by both institutions and the Program Advisory Board. Meetings of the Program Advisory Board will be held annually during the interview process for new students, or additionally as needed.
c) All activities conducted under this Memorandum of Agreement will be in accordance with all applicable rules and regulations of TAMU and RUC, and all applicable federal, state and local laws, rules and regulations.

VI. Designation of Coordinators

Each institution designates the following officials to serve as Coordinators under this Memorandum of Agreement. The individuals designated as Coordinators may be revised by either institution by providing written notice to the current Coordinators.

**Texas A&M University**

http://www.tamu.edu/
Dr. Jianhua Huang
jianhua@stat.tamu.edu
Mailing Address:
Director of Graduate Studies
and Professor
Department of Statistics

**Renmin University of China**

http://www.ruc.edu.cn/en
Dr. Chunrong Ai
chunrongai@ruc.edu.cn
Mailing Address:
Dean and Professor
Institute of Statistics and Big Data
Renmin University of China
VII. Term

a) This Memorandum of Agreement will become effective the latter of: (a) six months following TAMU’s required notification to SACSCOC or (b) when TAMU receives a formal, written acceptance of this notification and agreement from SACSCOC. The agreement will have a duration of five years.

b) This Memorandum of Agreement may be terminated by either party by providing 180 days written notice to the participating parties.

c) Students participating in the program at the end of the five year term or if the Memorandum of Agreement is terminated under section VII.b) will be allowed to complete the dual degree program under the terms set out in this Agreement.

VIII. General

a) Expenses incurred by each institution under this Memorandum of Agreement will be the sole responsibility of the appropriate department of the institution and all activities will be dependent upon budgetary appropriations of the parties.

b) Each institution agrees to comply with the host country’s immigration guidelines in support of exchanges of international students and/or faculty.

Disclaimer Statement:

Texas A&M University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award Doctor of Philosophy degrees. Renmin University of China is not accredited by SACS Commission on Colleges and the accreditation of Texas A&M University does not extend to or include Renmin University of China or its students. Further, although Texas A&M University agrees to accept certain course work from Renmin University of China to be applied toward an award from Texas A&M University, that course work may not be accepted by other colleges and universities, even if it appears on a transcript from Texas A&M University. The decision to accept course work in transfer from any institution is made by the institution considering the acceptance of credits or course work.

The above disclaimer statement must be included in any materials describing the relationship of the parties. Texas A&M University has the right to review, approve, and monitor RUC’s statements of relationship to ensure conformity with the disclaimer.

The parties have executed this Memorandum of Agreement on the date and year last specified below:
Texas A&M University

Michael K. Young
President

Date ____________________________

Dr. Karan L. Watson
Provost and Executive Vice President

Date ____________________________

Dr. H. Joseph Newton
Dean
College of Science

Date 6-12-15

Renmin University of China

Dr. Yulu Chen
President

Date ____________________________

Dr. Limin Wang
Executive Vice President for Academic Affairs and Dean of Graduate School

Date ____________________________
MEMORANDUM

TO: Dr. Karan Watson, Provost

FROM: R. Duane Ireland, Interim Department Head

THROUGH: Mary Lea McAnally, Associate Dean for Graduate Programs, Mays Business School

DATE: June 4, 2015

SUBJECT: Proposed Change in CIP Code for Master of Science in Management

The Department of Management is proposing that the CIP code used to classify the Master of Science in Management degree offered in the department be changed. The attached documents outline the details of our proposal.
Mays Business School Graduate Instruction Committee Meeting
June 4, 2015

The Mays GIC approves the CIP code change for the Master of Science in Management program, as attached.

Signatures required:

Annie McGowan – ACCT

Lanny Martindale – FINC

Rogello Oliva – INFO

Michael Wesson – MGMT

Stephen McDaniel – MKTG

Attachment
The Mays GIC approves the CIP code change for the Master of Science in Management program, as attached.

Signatures required:

Annie McGowan – ACCT

Lanny Martindale – FINC

Rogello Oliva – INFO

Michael Wesson – MGMT

Stephen McDaniel – MKTG

Attachment
Notification Form for Change to An Existing Degree Program
Texas Higher Education Coordinating Board

Administrative Information

1. **Institution:** Texas A&M University, College Station, Texas

2. **Description of Degree Program Change:**
   This proposed administrative change request seeks to change 1) the name and 2) the CIP code for the Master of Science in Management degree program. This change will not alter the curriculum or course content.

   We would like to rename the degree program from "Master of Science in Management" to "Master of Science in Human Resource Management." In addition, we propose to reclassify the degree program from the current CIP code of 52.0201 (Business Administration and Management, General) to 52.1001 (Human Resources Management/Personnel Administration, General). The proposed name and CIP code more accurately describe the content of the program being offered to students. This change will not alter the course content, curriculum, or program requirements in any way.

3. **Degree Program Inventory Change:**

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   **Proposed Changes:**
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4. **Implementation Date:** September 1, 2016

5. **Phase Out Date:** Not applicable

6. **Contact Person:**
   - **Name:** Murray Barrick
   - **Title:** University Distinguished Professor, Paul M. & Rosalie Robertson Chair in Business, Director of Center for Human Resource Management
   - **Email:** mbarrick@mays.tamu.edu
   - **Phone:** 979.846.0329
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<td>James R. Hallmark</td>
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<td>Vice Chancellor for Academic Affairs</td>
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<td>The Texas A&amp;M University System</td>
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Administrative Change Request
Change to An Existing Degree Program

I. Current Degree Information:

Master of Science in Management

CIP Code 52.0201: Business Administration and Management, General.

The program is administered entirely by the Department of Management at Mays Business School.

II. Proposed Change:

A. Program Identification:

We propose two changes to the MS in Management degree program:

1. Change the name from Master of Science in Management to Master of Science in Human Resource Management.
2. Reclassify the degree program from the current CIP code of 52.0201 (Business Administration and Management, General) to 52.1001 (Human Resources Management/Personnel Administration, General).

The original name and CIP code classification is no longer appropriately descriptive of the program content. Changes in the program’s content that have occurred are a product of our efforts to provide students with the skills required to succeed as human resource management professionals. There is strong student demand to gain these skills and there is strong demand among employers to hire graduates from our program.

B. Justification for Change:

The existing degree program, as originally authorized by the Coordinating Board, is to cover managerial tools, techniques, and concepts through which individuals enhance various skills including those related to planning, organizing, directing, and controlling. In addition to conveying knowledge regarding management theory, organization and production, and purchasing and logistics, the originally authorized degree program includes a focus on human resources management and behavior.

Across time and in light of enhanced interests from students, the content of the MS in Management degree program has shifted to concentrate more specifically on Human Resource Management as a part of the managerial process. The change in degree program name and CIP code allows us to more precisely capture the nature of the program that serves an expressed need from students.

We request that the name of the degree program be changed to Master of Science in Human Resource Management and that the CIP code for our degree program be changed to 52.1001: Human Resources Management / Personnel Administration, General. (Definition: A program that generally prepares individuals to manage the development of human capital in organizations, and to provide related services to individuals and groups. Includes instruction in personnel and organization policy, human resource dynamics and flows, labor relations, sex roles, civil rights, human resources law
MEMORANDUM

June 25, 2015

TO: Mark Zoran, Ph.D.
Chair, Graduate Council

THROUGH: Vernon Tesh, PhD
HSC Vice President
Office of Academic Affairs

FROM: Jay Maddock, Ph.D.
Dean
School of Public Health

RE: Closure of Low Producing Master of Science in Public Health Degree Programs

The School of Rural Public Health is initiating closure of five Master of Science in Public Health (MPSH) degrees. Attached you will find the following documents as agenda items for the Graduate Council:

- Teach-out Plan for Program Discontinuation for:
  - MSPH in Epidemiology
  - MSPH in Biostatistics
  - MSPH in Health Promotion and Community Health Sciences
  - MSPH in Occupational Health
  - MSPH in Environmental Health

- THECB Certification Form for Program Changes for:
  - MSPH in Epidemiology
  - MSPH in Biostatistics
  - MSPH in Health Promotion and Community Health Sciences
  - MSPH in Occupational Health
  - MSPH in Environmental Health

- A summary illustration of the THECB program inventory change.

Please note: Notification of closure for the MPSH in Health Policy and Management was submitted to the Texas Higher Education Coordinating Board and approved in 2014. This program, however, has not been removed from the THECB Program Inventory listing to date.

Attachments

Cc: Antonio A. René, PhD
Amanda Allen
Lois Rockwell

271 Administration Building
1256 TAMU
College Station, TX 77843-1266

Tel. 979.436-9421
aarene@sph.tamhsc.edu
Teach-out Plan

Master of Science In Public Health (MSPH) degree in Epidemiology
School of Public Health
Texas A&M University

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

1. **Date of program closure.**
   As of May 2015, application to the MSPH in Epidemiology was closed, and no new students will enter the program. The last student is expected to graduate in May 2016. The program is projected to close September 1, 2016.

2. **An explanation of how affected parties (students, faculty, staff) will be informed of the impending closure.**
   Faculty and staff were informed by the Department Head at a department meeting in May 2015. The current student was contacted by department advisors and informed that they would be able to complete the MSPH as planned.

3. **An explanation of how students will be helped to complete their programs of study with minimal disruption or additional expense.**
   All courses that students need for the MSPH program will continue to be offered for other degree programs in the School of Public Health, and faculty will be available to continue to supervise thesis work. All MSPH students will continue on their degree plans with no disruptions resulting from the program closure.

4. **Signed copies of teach-out agreements with other institutions, if any.**
   Not Applicable

5. **How faculty and staff will be redeployed or helped to find new employment**
   The closure of this program will not impact the faculty and staff in the Department of Epidemiology and Biostatistics. The faculty and staff will continue to operate the department's other degree (MPH in Epidemiology, MPH in Biostatistics, DrPH).

6. **If closing an institution, arrangement for the storing of student records, disposition of final financial resources and other assets**
   Not Applicable

7. **Please provide the following additional information:**
   a. **How many students are currently enrolled in the program?** One
   b. **Projected graduation date for the last student(s) in the program?** May 2016
Teach-out Plan

Master of Science in Public Health (MSPH) degree in Biostatistics
School of Public Health
Texas A&M University

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

1. Date of program closure.
As of May 2015, application to the MSPH in Biostatistics was closed. The last students will
begin in August 2015, with a projected graduation date of August 2017. The program is
projected to close January 1, 2018.

2. An explanation of how affected parties (students, faculty, staff) will be informed of the
impending closure.
Faculty and staff were informed by the Department Head at a department meeting in May 2015.
Current students were contacted by department advisors and informed that they would be able to
complete the MSPH as planned. Students accepted for Fall 2015 were informed by department
administration and the Office of Student Affairs that they would be able to complete the MSPH
as planned, and were given the option of moving to the MPH in Biostatistics if they preferred.

3. An explanation of how students will be helped to complete their programs of study with
minimal disruption or additional expense.
All courses that students need for the MSPH program will continue to be offered for other degree
programs in the School of Public Health, and faculty will be available to continue to supervise
thesis work. All MSPH students will continue on their degree plans with no disruptions resulting
from the program closure.

4. Signed copies of teach-out agreements with other institutions, if any.
Not Applicable

5. How faculty and staff will be redeployed or helped to find new employment
The closure of this program will not impact the faculty and staff in the Department of
Epidemiology and Biostatistics. The faculty and staff will continue to operate the department’s
other degree (MPH in Epidemiology, MPH in Biostatistics, DrPH).

6. If closing an institution, arrangement for the storing of student records, disposition of
final financial resources and other assets
Not Applicable

7. Please provide the following additional information:
   a. How many students are currently enrolled in the program?
      Three as of September 2015

   b. Projected graduation date for the last student(s) in the program? August 2017
Teach-out Plan

Master of Science in Public Health (MSPH) degree in Health Promotion and Community Health Sciences
School of Public Health
Texas A&M University

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

1. Date of program closure.
As of May 2015, application to the MSPH in Health Promotion and Community Health Sciences was closed. There are no students currently in the program. The program will close January 1, 2016.

2. An explanation of how affected parties (students, faculty, staff) will be informed of the impending closure.
Faculty and staff were informed by the Department Head at a department meeting in May 2015. There are no current students.

3. An explanation of how students will be helped to complete their programs of study with minimal disruption or additional expense.
Not Applicable. Since there are no students enrolled in the program, no students will be affected.

4. Signed copies of teach-out agreements with other institutions, if any.
Not Applicable

5. How faculty and staff will be redeployed or helped to find new employment
The closure of this program will not impact the faculty and staff in the Department of Health Promotion and Community Health. The faculty and staff will continue to operate the department’s other degrees (MPH, DrPH).

6. If closing an institution, arrangement for the storing of student records, disposition of final financial resources and other assets
Not Applicable

7. Please provide the following additional information:
   a. How many students are currently enrolled in the program? None
   b. Projected graduation date for the last student(s) in the program? Not Applicable
Teach-out Plan

Master of Science in Public Health (MSPH) degree in Occupational Health
School of Public Health
Texas A&M University

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

1. **Date of program closure.**
   As of May 2015, application to the MSPH in Occupational Health was closed, and no new
   students will enter the program. The last student is expected to graduate in December 2015. The
   program is projected to close May 1, 2016.

2. **An explanation of how affected parties (students, faculty, staff) will be informed of the
   impending closure.**
   Faculty and staff were informed by the Department Head at a department meeting in May 2015.
   Current students were contacted by department advisors and informed that they would be able to
   complete the MSPH as planned.

3. **An explanation of how students will be helped to complete their programs of study with
   minimal disruption or additional expense.**
   All courses that students need for the MSPH program will continue to be offered for other degree
   programs in the School of Public Health, and faculty will be available to continue to supervise
   thesis work. All MSPH students will continue on their degree plans with no disruptions resulting
   from the program closure.

4. **Signed copies of teach-out agreements with other institutions, if any.**
   Not Applicable

5. **How faculty and staff will be redeployed or helped to find new employment**
   The closure of this program will not impact the faculty and staff in the Department of
   Environmental and Occupational Health. The faculty and staff will continue to operate the
   department's other degrees (MPH in Environmental Health, MPH in Occupational Safety and
   Health, DrPH).

6. **If closing an institution, arrangement for the storing of student records, disposition of
   final financial resources and other assets**
   Not Applicable

7. **Please provide the following additional information:**
   a. **How many students are currently enrolled in the program?** Two

   b. **Projected graduation date for the last student(s) in the program?** December 2015
Teach-out Plan

Master of Science in Public Health (MSPH) degree in Environmental Health
School of Public Health
Texas A&M University

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

1. Date of program closure.
As of May 2015, application to the MSPH in Environmental Health was closed, and no new students will enter the program. The last student is expected to graduate in May 2016. The program is projected to close in September 1, 2016.

2. An explanation of how affected parties (students, faculty, staff) will be informed of the impending closure.
Faculty and staff were informed by the Department Head at a department meeting in May 2015. Current students were contacted by department advisors and informed that they would be able to complete the MSPH as planned.

3. An explanation of how students will be helped to complete their programs of study with minimal disruption or additional expense.
All courses that students need for the MSPH program will continue to be offered for other degree programs in the School of Public Health, and faculty will be available to continue to supervise thesis work. All MSPH students will continue on their degree plans with no disruptions resulting from the program closure.

4. Signed copies of teach-out agreements with other institutions, if any.
Not Applicable

5. How faculty and staff will be redeployed or helped to find new employment.
The closure of this program will not impact the faculty and staff in the Department of Environmental and Occupational Health. The faculty and staff will continue to operate the department's other degree (MPH in Environmental Health, MPH in Occupational Safety and Health, DrPH).

6. If closing an institution, arrangement for the storing of student records, disposition of final financial resources and other assets
Not Applicable

7. Please provide the following additional information:
   a. How many students are currently enrolled in the program? Two
   b. Projected graduation date for the last student(s) in the program? May 2016
Certification Form for Program Revisions  
Texas Higher Education Coordinating Board

Directions: An institution shall use this form to request an administrative change that meets all criteria for automatic approval in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44: (a) The administrative change has institutional and board of regents approval, (b) the institution certifies that adequate funds are available to cover the costs of the administrative change, (c) new costs during the first five years would not exceed $2 million, and (d) the administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests).

If an administrative change does not meet the criteria above, an institution must submit a request using the Administrative Change Request Form.

An institution may also use this form to report the creation or change to a unit that does not administer a certificate or degree program (e.g., a research center) to update the Program Inventory.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

---

Administrative Information

1. **Institution:**  Texas A&M University

2. **Description of Administrative Change:** Discontinue the Master of Science in Public Health (MSPH) degree in Epidemiology. Remove from the degree program inventory.

3. **Program Inventory** – CIP for MSPH in Epidemiology to be removed is 26.1309.00

<table>
<thead>
<tr>
<th>ADMINISTRATIVE STRUCTURE</th>
<th>CIP</th>
<th>DEGREE LEVELS</th>
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<tr>
<td>SCHOOL OF PUBLIC HEALTH</td>
<td>26.1102</td>
<td>MSPH (45 SCH)</td>
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<tr>
<td>10  2425</td>
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<tr>
<td>BIOSTATISTICS</td>
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<tr>
<td>-EPIDEMIOLOGY</td>
<td>26.1309</td>
<td>MSPH (36 SCH)</td>
</tr>
<tr>
<td>HEALTH SERVICES RESEARCH</td>
<td>51.0701</td>
<td>PHD (100 SCH)</td>
</tr>
<tr>
<td>HEALTH POLICY AND</td>
<td>51.0701</td>
<td>MSPH (36 SCH)</td>
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<tr>
<td>MANAGEMENT</td>
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<tr>
<td>EPIDEMIOLOGY AND</td>
<td>51.2201</td>
<td>DRPH (99 SCH)</td>
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<td>ENVIRONMENTAL HEALTH</td>
<td>51.2202</td>
<td>MSPH (36 SCH)</td>
</tr>
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<td>OCCUPATIONAL SAFETY AND</td>
<td>51.2206</td>
<td>MPH (48 SCH)</td>
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<td>HEALTH</td>
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<tr>
<td>ADMINISTRATION</td>
<td>51.2211</td>
<td>MHA (57 SCH)</td>
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</table>

4. **Implementation Date:** September 1, 2016

5. **Contact Person:** Provide contact information for the person who can answer specific questions about the program.
   - **Name:** Dr. Karan L. Watson
   - **Title:** Provost and Executive Vice President
   - **E-mail:** watson@tamu.edu
   - **Phone:** 979-845-4016

AAR

Updated 7.30.09
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The administrative change has institutional approval.

(b) The institution certifies that adequate funds are available to cover the costs of the administrative change.

(c) New costs during the first five years would not exceed $2 million.

(d) The administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests):

   (1) The administrative overhead of universities and health-related institutions should be kept low to insure that most of the funds appropriated for higher education go toward the costs of instruction.

   (2) The administrative costs of new academic units, particularly colleges and schools, should not be so high as to detract from the quality of the programs the administrative unit contains.

I understand that the Coordinating Board will update the program inventory of the institution to reflect the administrative change if no objections to the proposed administrative change are received during the 30-day public comment period.

----------------------------------
Chief Executive Officer            Date

2. TAMUS Office of Academic Affairs Approval

On behalf of the A&M System, I certify that the Office of Academic Affairs has approved the administrative unit.

----------------------------------
James R. Hallmark, Ph.D.            Date
Certification Form for Program Revisions
Texas Higher Education Coordinating Board

Directions: An institution shall use this form to request an administrative change that meets all criteria for automatic approval in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44: (a) The administrative change has institutional and board of regents approval, (b) the institution certifies that adequate funds are available to cover the costs of the administrative change, (c) new costs during the first five years would not exceed $2 million, and (d) the administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests).

If an administrative change does not meet the criteria above, an institution must submit a request using the Administrative Change Request Form.

An institution may also use this form to report the creation or change to a unit that does not administer a certificate or degree program (e.g., a research center) to update the Program Inventory.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

Administrative Information

1. Institution: Texas A&M University

2. Description of Administrative Change: Discontinue the Master of Science in Public Health (MSPH) degree in Biostatistics. Remove from the degree program inventory.

3. Program Inventory – CIP for MSPH in Biostatistics to be removed is 26.1102.00

<table>
<thead>
<tr>
<th>Administrative Structure</th>
<th>CIP</th>
<th>Degree Levels</th>
</tr>
</thead>
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<tr>
<td>BİOSTATİSTİCS</td>
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<td>MSPH (45 SCH)</td>
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<td>EPIDEMIOLOGY</td>
<td>26.1309.00</td>
<td>MSPH (36 SCH)</td>
</tr>
<tr>
<td>HEALTH SERVICES RESEARCH</td>
<td>51.0701.00</td>
<td>PHD (100 SCH)</td>
</tr>
<tr>
<td>HEALTH POLICY AND MANAGEMENT</td>
<td>51.0701.00</td>
<td>MSPH (36 SCH)</td>
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<td>EPIDEMIOLOGY AND ENVIRONMENTAL HEALTH</td>
<td>51.2201.00</td>
<td>DRPH (99 SCH)</td>
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<td>ENVIRONMENTAL HEALTH</td>
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<td>MSPH (36 SCH)</td>
</tr>
<tr>
<td>OCCUPATIONAL SAFETY AND HEALTH</td>
<td>51.2206.00</td>
<td>MPH (48 SCH)</td>
</tr>
<tr>
<td>HEALTH ADMINISTRATION</td>
<td>51.2211.00</td>
<td>MHA (57 SCH)</td>
</tr>
</tbody>
</table>

4. Implementation Date: January 1, 2016

5. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   Name: Dr. Karan L. Watson
   Title: Provost and Executive Vice President
   E-mail: watson@tamu.edu
   Phone: 979-845-4016

AAR

Updated 7.30.09
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The administrative change has institutional approval.

(b) The institution certifies that adequate funds are available to cover the costs of the administrative change.

(c) New costs during the first five years would not exceed $2 million.

(d) The administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests):

   (1) The administrative overhead of universities and health-related institutions should be kept low to ensure that most of the funds appropriated for higher education go toward the costs of instruction.

   (2) The administrative costs of new academic units, particularly colleges and schools, should not be so high as to detract from the quality of the programs the administrative unit contains.

I understand that the Coordinating Board will update the program inventory of the institution to reflect the administrative change if no objections to the proposed administrative change are received during the 30-day public comment period.

________________________________________  _______________________
Chief Executive Officer                     Date

2. TAMUS Office of Academic Affairs Approval

   On behalf of the A&M System, I certify that the Office of Academic Affairs has approved the administrative unit.

________________________________________  _______________________
James R. Hallmark, Ph.D.                    Date
Certification Form for Program Revisions
Texas Higher Education Coordinating Board

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If an administrative change does not meet the criteria above, an institution must submit a request using the Administrative Change Request Form.

An institution may also use this form to report the creation or change to a unit that does not administer a certificate or degree program (e.g., a research center) to update the Program Inventory.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

Administrative Information

1. Institution: Texas A&M University

2. Description of Administrative Change: Discontinue the Master of Science in Public Health (MSPH) degree in Health Promotion and Community Health Sciences. Remove from the degree program inventory.

3. Program Inventory – CIP for MSPH in Health Promotion and Community Health Sciences to be removed is 51.2212.00

<table>
<thead>
<tr>
<th>Administrative Structure</th>
<th>CIP</th>
<th>Degree Levels</th>
</tr>
</thead>
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<tr>
<td>SCHOOL OF PUBLIC HEALTH 10  2425</td>
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<td>DEPARTMENT OF PROMTN &amp; COMM HEALTH SCIS 141B</td>
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<td>HEALTH PROMOTION AND COMMUNITY HEALTH SCIENCES</td>
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<td>MPH (45 SCH) DRPH (90 SCH)</td>
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</table>

4. Implementation Date: January 1, 2016

5. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   Name: Dr. Karan L. Watson
   Title: Provost and Executive Vice President
   E-mail: watson@tamu.edu
   Phone: 979-845-4016
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The administrative change has institutional approval.

(b) The institution certifies that adequate funds are available to cover the costs of the administrative change.

(c) New costs during the first five years would not exceed $2 million.

(d) The administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests):

(1) The administrative overhead of universities and health-related institutions should be kept low to insure that most of the funds appropriated for higher education go toward the costs of instruction.

(2) The administrative costs of new academic units, particularly colleges and schools, should not be so high as to detract from the quality of the programs the administrative unit contains.

I understand that the Coordinating Board will update the program inventory of the institution to reflect the administrative change if no objections to the proposed administrative change are received during the 30-day public comment period.

______________________________  ______________________
Chief Executive Officer          Date

2. TAMUS Office of Academic Affairs Approval

On behalf of the A&M System, I certify that the Office of Academic Affairs has approved the administrative unit.

______________________________  ______________________
James R. Hallmark, Ph.D.          Date
Certification Form for Program Revisions
Texas Higher Education Coordinating Board

Directions: An institution shall use this form to request an administrative change that meets all criteria for automatic approval in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44: (a) The administrative change has institutional and board of regents approval, (b) the institution certifies that adequate funds are available to cover the costs of the administrative change, (c) new costs during the first five years would not exceed $2 million, and (d) the administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests).

If an administrative change does not meet the criteria above, an institution must submit a request using the Administrative Change Request Form.

An institution may also use this form to report the creation or change to a unit that does not administer a certificate or degree program (e.g., a research center) to update the Program Inventory.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

Administrative Information

1. Institution: Texas A&M University

2. Description of Administrative Change: Discontinue the Master of Science in Public Health (MSPH) degree in Occupational Health. Remove from the degree program inventory.

3. Program Inventory – CIP for MSPH in Occupational Health to be removed is 51.2206.00

<table>
<thead>
<tr>
<th>Administrative Structure</th>
<th>CIP</th>
<th>Degree Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHOOL OF PUBLIC HEALTH 10 2425</td>
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<td>DEPARTMENT OF ENVIRONMENTAL &amp; OCCUPATIONAL HLTH 1057</td>
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<td>ENVIRONMENTAL HEALTH</td>
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<tr>
<td>OCCUPATIONAL HEALTH</td>
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<td>MSPH (36 SCH)</td>
</tr>
</tbody>
</table>

4. Implementation Date: May 1, 2016

5. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   Name: Dr. Karan L. Watson
   Title: Provost and Executive Vice President
   E-mail: watson@tamu.edu
   Phone: 979-845-4016
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The administrative change has institutional approval.

(b) The institution certifies that adequate funds are available to cover the costs of the administrative change.

(c) New costs during the first five years would not exceed $2 million.

(d) The administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests):

(1) The administrative overhead of universities and health-related institutions should be kept low to ensure that most of the funds appropriated for higher education go toward the costs of instruction.

(2) The administrative costs of new academic units, particularly colleges and schools, should not be so high as to detract from the quality of the programs the administrative unit contains.

I understand that the Coordinating Board will update the program inventory of the institution to reflect the administrative change if no objections to the proposed administrative change are received during the 30-day public comment period.

_________________________    ____________________
Chief Executive Officer                  Date

_________________________    ____________________
TAMUS Office of Academic Affairs Approval                  Date

On behalf of the A&M System, I certify that the Office of Academic Affairs has approved the administrative unit.

_________________________    ____________________
James R. Hallmark, Ph.D.                  Date
Certification Form for Program Revisions
Texas Higher Education Coordinating Board

Directions: An institution shall use this form to request an administrative change that meets all criteria for automatic approval in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44: (a) The administrative change has institutional and board of regents approval, (b) the institution certifies that adequate funds are available to cover the costs of the administrative change, (c) new costs during the first five years would not exceed $2 million, and (d) the administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests).

If an administrative change does not meet the criteria above, an institution must submit a request using the Administrative Change Request Form.

An institution may also use this form to report the creation or change to a unit that does not administer a certificate or degree program (e.g., a research center) to update the Program Inventory.

Information: Contact the Division of Academic Affairs and Research at 512/427-6200 for more information.

Administrative Information

1. Institution: Texas A&M University

2. Description of Administrative Change: Discontinue the Master of Science in Public Health (MSPH) degree in Environmental Health. Remove from the degree program inventory.

3. Program Inventory – CIP for MSPH in Environmental Health to be removed is 51.2202.00

<table>
<thead>
<tr>
<th>Administrative Structure</th>
<th>CIP</th>
<th>Degree Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHOOL OF PUBLIC HEALTH 10 2425</td>
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</tr>
<tr>
<td>BIOSTATISTICS</td>
<td>26.1102.00</td>
<td>MSPH (45 SCH)</td>
</tr>
<tr>
<td>EPIDEMIOLOGY</td>
<td>26.1309.00</td>
<td>MSPH (36 SCH)</td>
</tr>
<tr>
<td>HEALTH SERVICES RESEARCH</td>
<td>51.0701.00</td>
<td>PHD (100 SCH)</td>
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<tr>
<td>HEALTH POLICY AND MANAGEMENT</td>
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<tr>
<td>EPIDEMIOLOGY AND ENVIRONMENTAL HEALTH</td>
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<td>HEALTH ADMINISTRATION</td>
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<td>MHA (57 SCH)</td>
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</table>

4. Implementation Date: September 1, 2016

5. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   Name: Dr. Karan L. Watson
   Title: Provost and Executive Vice President
   E-mail: watson@tamu.edu
   Phone: 979-845-4016
Signature Page

I hereby certify that all of the following criteria have been met in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.44:

(a) The administrative change has institutional approval.

(b) The institution certifies that adequate funds are available to cover the costs of the administrative change.

(c) New costs during the first five years would not exceed $2 million.

(d) The administrative change meets all other criteria in Section 5.47 of Board Rules (relating to Criteria for Administrative Change Requests):

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(2) The administrative costs of new academic units, particularly colleges and schools, should not be so high as to detract from the quality of the programs the administrative unit contains.

I understand that the Coordinating Board will update the program inventory of the institution to reflect the administrative change if no objections to the proposed administrative change are received during the 30-day public comment period.

___________________________  ______________________
Chief Executive Officer           Date

2. TAMUS Office of Academic Affairs Approval

On behalf of the A&M System, I certify that the Office of Academic Affairs has approved the administrative unit.

___________________________  ______________________
James R. Hallmark, Ph.D.           Date
Discontinue MSPH Degree Programs

Current Program Inventory:

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<thead>
<tr>
<th>SCHOOL OF PUBLIC HEALTH 10 2425</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOSTATISTICS</td>
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<tr>
<td>EPIDEMIOLOGY</td>
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<tr>
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<td>HEALTH POLICY AND MANAGEMENT</td>
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<td>MPH (48 SCH)</td>
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**Discontinue MSPH Degree Programs (Continued)**

**Proposed Changes to Program Inventory:**

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*NOTE: Request for closure of this program was submitted in 2014*
Discontinue MSPH Degree Programs (Continued)

**Final Program Inventory**

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July 22, 2015

Deena J. McConnell, J.D., M.B.A.
Associate Vice President for Administration and Academic Affairs
Office of the Provost and Executive Vice President
Texas A&M University

Dear Ms. McConnell,

On behalf of Mays Business School, I am submitting the attached form for your consideration and review. The THECB form explains the request to reduce semester credit hours required to graduate from the Executive and Professional MBA Programs from 49 SCH to 45 SCH. This change in requirement has arisen because the required SCH must be equal on the Program Inventory across all MBA programs.

Thank you for your time and attention as you review this submission.

Sincerely,

Mary Lea McAnally
Phillip Ljungdahl Chaired Professor
Associate Dean for Graduate Programs

Mike Alexander
Director, MBA Programs

390 Wehner Building
4117 TAMU
College Station, TX 77843-4117
Tel. 979.845.4714 Fax. 979.862.2393
mbaprograms.tamu.edu
Texas Higher Education Coordinating Board  
Request to Change Semester Credit Hours

Directions: An institution shall use this form to request a change in the number of semester credit hours (SCH) required for a degree program already on the institution’s program inventory in accordance with Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55 – Revisions to Approved Programs.

Options:

1) Revisions that reduce the number of SCH require notification of change and affirmation that the reduction does not fall below the minimum requirements of the Southern Association of Colleges and Schools Commission on Colleges, program accreditors, and licensing bodies, if applicable.

2) Revisions that increase the number of SCH require detailed written documentation describing the compelling academic reason for the increase in the number of required hours.

NOTE: No request or notification is needed if revisions to the degree program curriculum do not result in a change in SCH.

Options 1 and 2 require the signature of the Provost or Chief Academic Officer.

Please submit Request to Change Semester Credit Hour via the Online Submission Portal: https://www1.thecb.state.tx.us/apps/proposals/

Information: Contact the Division of Workforce, Academic Affairs and Research at 512/427-6200.

Administrative Information

1. Institution: Texas A&M University, Mays Business School

2. Program Name – As it appears on the Coordinating Board’s program inventory (e.g., Bachelor of Business Administration degree with a major in Accounting):
   Master of Business Administration  MBA

3. Program CIP Code:
   52.0201.00

4. Contact Person: Provide contact information for the person who can answer specific questions about the program.
   Name: Michael Alexander
   Title:  Director
   E-mail: malexander@mays.tamu.edu
   Phone: 979 845 4714

Updated 1.26.12
Notification/Request for Change in Semester Credit Hours (SCH):

Current SCH: _______ 49 _________

Proposed SCH: _______ 45 _________

Implementation Date: _______ 9.1.2015 _________

Complete Option 1 or 2 as appropriate

Option 1: Reduction in Semester Credit Hours

Is the change in the number of SCH compatible with the requirements of accreditation for the program?

a. Southern Association of Colleges and Schools Commission on Colleges
   ☒ YES  ☐ NO

b. Program Accreditor(s)
   ☒ YES  ☐ NO  ☐ NA
   Name of Program Accreditor: ________________ AACSB

c. Licensing Body(ies)
   ☐ YES  ☐ NO  ☐ NA
   Name of Licensing Body(ies): ________________ N/A

Option 2: Increase in Semester Credit Hours

Provide detailed documentation, such as changes in accrediting agency or licensing body requirements, workforce needs, or academic professional standards and needs, describing a compelling reason for the change in the number of SCH:

Signature of Compliance

I hereby certify that all of the above changes have been approved in accordance with the procedures outlined in Coordinating Board Rules, Chapter 5, Subchapter C, Section 5.55.

Provost/Chief Academic Officer ___________________________________________ Date _________
From: McConnell, Deena J [mailto: djm@tamu.edu]
Sent: Tuesday, June 02, 2015 6:26 PM
To: McAnally, Mary Lea; Stephenson, Michael T.; Shetty, Bala
Cc: Cordova, Cathy A; Jasperon, Jon
Subject: RE: meeting on Mays graduate programs

Mary Lea and Mike,

There is an additional issue that we needed to discuss, but it is a relatively simple one. The Program Inventory has the required SCH for the MBA program at 49. According to the MBA website, this is the required credit hours for the full-time program. However, the Executive and Professional MBA programs have 45 required credit hours. We need to reduce the number of SCH on the MBA program to 45 hours to allow for graduation in the Executive and Professional programs at less than the currently listed 49 credit hours. A reduction will not impact the full time program – as we can have a requirement of more SCH than is shown on the Program Inventory, but we cannot have less.

We have taken similar action in other Masters programs when the Executive Masters has few required credit hours than the full time program.

I’m happy to discuss by phone tomorrow if there are questions.

Deena

Deena J. McConnell, J.D., M.B.A.
Associate Vice President for Administration and Academic Affairs
Office of the Provost and Executive Vice President
Texas A&M University
djm@tamu.edu

Jack K. Williams Administration Building, Suite 100
1248 TAMU
College Station, TX 77843-1248 | USA
Tel. +1 979.845.4016 | Fax. +1 979.845.6994

On Jun 2, 2015, at 7:19 PM, McConnell, Deena J <djm@tamu.edu> wrote:

Mary Lea,

The hours do not have to be equal across all three of the programs, but the number of SCH that is reflected on the Program Inventory has to be the lowest number of the three program. So, the full-time program can remain at 49 and the Executive and Professional programs can stay at 45. The issue we have is that we are awarding degrees with a lower required SCH than is reflected on the Program Inventory. It is a simple fix in that there is a short form that needs to be submitted to the Coordinating Board to reduce the SCH. I have attached a copy of the form.
MEMORANDUM

DATE: 5/14/2015

TO: CEHD Graduate Instruction Committee

THROUGH: George Cunningham
Associate Dean

THROUGH: Richard Kreider
Professor & Department Head

FROM: Adam Barry
Chair of Graduate Education Programs

SUBJECT: Online Masters of Health Education and Sport Management Committee Size

The Masters of Science (MS) in Health Education (Online) and Sport Management (Online) request approval for the following changes:

A. Allow student filing the official Office of Graduate and Professional Studies degree plan to use a two-person committee (i.e., a Chair and one inside department Committee Person), rather than a full three person committee, which requires an outside committee member, internal departmental member, and Chair.
   i. Students will be provided the option to select a full committee should they desire. This option will be outlined in their acceptance letter to the program.

The Masters of Science in Health Education and Sport Management is offered as an online degree. These programs have grown significantly and we anticipate on admitting approximately 75 students each year in each program. With this increase in students, these changes are necessary to ensure that students are able to move through the program in a timely manner. Moreover, due to the prescriptive degree plans associated with each degree, exposure to professors outside of the division is limited, which hinders ability to identify outside committee members.

Thank you for your consideration.
MEMORANDUM

To: Dr. Chris Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences

To: Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences

From: Dr. Debbie Thomas, Interim Department Head, Oceanography
      Dr. Rick Giardino, Department Head, Geology and Geophysics

RE: Joint degree program between Oceanography and Geology

I have attached a proposal for a Fast Track Dual Degree Program for Geology (B.A.) and the Oceanography (non-thesis M.S.). The proposal has been approved by both Geology and Geophysics and Oceanography.

Please let me know if any additional information is needed.

O&M Building, Room 1204
3146 TAMU
College Station, TX 77843-3146
Tel. 979.845.7211 Fax 979.845.6331
Fast Track Dual Degree Program for Geology (B.A.) and Oceanography (non-thesis M.S.)

Purpose:

The Fast Track Program offers motivated and exceptional students the opportunity to achieve aspirations in an efficient program at Texas A&M, completing the Bachelor of Arts (B.A.) degree in the Department of Geology and Geophysics Geology Program and the Oceanography non-thesis M.S. degree in 5 years. There will be only two courses used for dual credit in this program. There is a total of 150 hours of coursework. The concurrent degree program will enable these motivated students to coordinate the required B.A. coursework (114 undergraduate credit hours plus 6 dual credit graduate courses) and non-thesis M.S. coursework (36 credit hours including the 6 dual credit graduate courses) to complete the required credit hours for each degree without diminishing scope or quality of work and within 5 years.

Application and Eligibility:

- Applications to the Fast Track program will be submitted by July 1 after the completion of the student's junior year. Applications submitted after that time will be evaluated on a case by case basis.
- Applicants must have a minimum undergraduate GPR of 3.0. Applicants must also earn a C or better in all Chemistry, Calculus and Physics courses. Once admitted to the program, students must maintain a minimum 3.0 GPR.
- A faculty advisor will be assigned to each student. Students may seek additional mentors, but a formal committee is not required.
- Students admitted into the Fast Track program must finish the entire 150 credit hours to obtain both the Bachelor’s and Master’s degrees. These students will be conferred with two degrees once they complete the 5th year of the concurrent program.
- Students admitted to the program will change from U4 to G7 status when they are admitted having completed at least 102 hours (end of spring semester, year 3).
- Students not accepted or not allowed to continue with the Fast Track Program will complete the 120 hour Bachelor’s degree under the standard 4 year curriculum. These students may still apply to the traditional graduate program.
- Students will graduate at the completion of the 5th year in the Fast Track Program coursework (150 credit hours) with both Bachelor’s and Master’s degrees. Students will complete the coursework in May of the 5th year.
Draft Degree Plan:

Year 1 – Semester 1
GEOL 104 Physical Geology (4)
CHEM 101 Fundamental Chemistry I (3)
CHEM 111 Fundamental Chemistry Lab I (1)
MATH 151 Engineering Math I (4)
ENGL 104 Comp and Rhetoric (3)
GEOS First Year Seminar (1)

Total: 16 Credit hours (undergraduate)

Year 1 – Semester 2
GEOL 106 Historical Geology (4)
CHEM 102 Fundamental Chemistry II (3)
CHEM 112 Fundamental Chemistry II Lab (1)
MATH 152 Engineering Math II (4)
Communications elective (3)

Total: 15 Credit hours (undergraduate)

Year 2 – Semester 1
GEOL 203 Mineralogy (4)
GEOL 311 Geologic Writing (1)
GEOP 341 Introduction to Global Geophysics (3)
PHYS 218 Mechanics (4)
Language/Philosophy/Culture elective (3)
Minor or Free elective (3)

Total: 18 Credit hours (undergraduate)\(^1\)

Year 2 – Semester 2
GEOL 302 Introduction to Petrology (4)
GEOL 306 Sedimentology and Stratigraphy (4)
PHYS 208 Electricity and Optics (4)
POLS 206 American National Government (3)
Minor or Free elective (3)\(^2\)

Total: 18 Credit hours (undergraduate)\(^1\)

Year 3 – Semester 1
GEOL 330 Geologic Field Trip (3)
GEOL Elective (3)
GEOL Elective (3)
POLS 207 State and Local Government (3)
HIST 105 History of the United States (3)
Minor or Free elective (3)\(^2\)

Total: 18 Credit hours (undergraduate)\(^1\)

Year 3 - Semester 2
GEOL 309 Intro to Geol Field (3)
GEOL 312 Structure and Tectonics\(^3\) (4)
GEOL Elective\(^3\) (3)
OCNG 430 Introduction to Geological Oceanography (3)\(^4\) [tech elective; OCNG minor]\(^7\)
Creative Arts elective (3)
Free elective (1) [recommend OCNG 252]

Total: 17 Credit hours (undergraduate)\(^1\)

Admission Process

Apply: End of junior year after 6 semesters; minimum GPR = 3.0.
Decision: August prior to starting graduate course work in Fall of Senior Year.
Change to graduate status (G7).
Apply for graduate degree plan upon approval of G7 status
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<th>Year 4 – Semester 1</th>
<th>Year 4 – Semester 2</th>
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<tr>
<td>HIST 106 History of the United States (3)</td>
<td>Humanities elective (3)</td>
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<tr>
<td>OCNG 604 Ocean Observing Systems (3) (^2,4,5) [supporting coursework; Minor or free elective]</td>
<td>OCNG 657 Data Methods and Graphical Representation in Oceanography (3) (^4)</td>
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<tr>
<td>OCNG 608 Physical Oceanography (3) (^2,4,5) [supporting coursework; Minor or free elective]</td>
<td>OCNG 620 Introduction to Biological Oceanography (3) (^4)</td>
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<td>Oceanography 603-Communicating Ocean Science (3)</td>
<td>OCNG 640 Introduction to Chemical Oceanography (3) (^4)</td>
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**Total: 15 credit hours (6 undergraduate, 6 dual undergrad/grad, 3 graduate)**

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<th>Year 5 – Semester 1</th>
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<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Capstone experience II (non-thesis capstone course to be created) (3)</td>
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**Total: 9 credit hours (9 graduate)**

**Total undergraduate credit hours: 120**

**Total graduate credit hours: 36 (36 credits required for non-thesis MOST)**

**Total credits actually taken: 150**

**Notes:**

1. Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.
2. If students use 6 credits of allowed OCNG courses (e.g. OCNG 251 or OCNG 401, OCNG 252, OCNG 350, OCNG 451, OCNG 485) as minor or free electives, they will receive an OCNG minor with their GEOL B.A.
3. Please note carefully that a second W course is required. GEOL 312 is offered as a W option when taught by Dr. Julie Newman, and other GEOL electives also fulfill the W requirement (including GEOL 491 when arranged with the permission of the instructor).
4. Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 410/608, OCNG 440/640; GEOS 470/OCNG 657)
5. These 2 graduate courses will be taken for dual undergraduate/graduate credit and may contribute to the minor.
**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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Total Required: 0
Program GPA:
Overall GPA: 0
Other Course Information
Transfer:

This is NOT an official evaluation.

### Area Major Coursework (46.000 credits) - Not Met

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</table>

Select from GEOL 300-499; GEOP 400-499.

Total Credits and GPA: 0.000 0.00

unofficial evaluation

### Area Supporting Coursework (16.000 credits) - Not Met

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Any technical course that augments the degree with approval of an academic advisor. (DE)

OCNG 430 will be one of the tech electives

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unofficial evaluation

**Area Communication (6,000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Mathematics (6,000 credits) - Not Met**

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Math 151 and 152 are required for the FastTrack

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Life and Physical Sciences (16,000 credits) - Not Met**

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Phys 219 and 207 are required for FastTrack

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Language, Philosophy & Culture (3,000 credits) - Not Met**

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Total Credits and GPA 0.000 .00

unofficial evaluation

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

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### Creative Arts Requirement

Select three hours from any course with the Creative Arts attribute (KCRA).

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### Social and Behavioral Sciences (3.000 credits) - Not Met

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<tr>
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Select from courses with the Social and Behavioral Science attribute (KHSOC).

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### Citizenship (12.000 credits) - Not Met

Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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Select from any course with the [KHS] attribute.

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Take POLS 206 and POLS 207.

### General Electives (6.000 credits) - Not Met

Select any course from 100-499 not used elsewhere. (Except AERS 100-499; BUSN 100; ENGL 100, 103; KINE 198, 199; MATH 102, 103, 131, 141, 142, 150, 151, 166, 171; MLSC 100-499; NVSC 100-499; PHYS 101, 201, 202, 208, 218, 219; SOMS 100-499; STLC 100-499; LBAR 201.)

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### Work Not Applied - Met

See advisor for acceptable substitutions.

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### University Writing Requirement - Not Met

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unofficial evaluation

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unofficial evaluation

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unofficial evaluation

Back to Display Options

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08 October 2014

MEMORANDUM

To: Dr. Chris Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences

To: Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences

From: Dr. Debbie Thomas, Interim Department Head, Oceanography
Dr. Rick Giardino, Department Head, Geology and Geophysics

RE: Joint degree program between Oceanography and Geology

I have attached a proposal for a Fast Track Dual Degree Program for Geology (B.S.) and Oceanography (non-thesis M.S.). The proposal has been approved by both Geology and Geophysics and Oceanography.

Please let me know if any additional information is needed.
Fast Track Dual Degree Program for Geology (B.S.) and Oceanography (non-thesis M.S.)

Purpose:

The Fast Track Program offers motivated and exceptional students the opportunity to achieve aspirations in an efficient program at Texas A&M, completing the Bachelor of Science (B.S.) degree in the Department of Geology and Geophysics Geology Program and the Oceanography non-thesis M.S. degree in 5 years. There will be only two courses used for dual credit in this program. There is a total of 150 hours of coursework. The concurrent degree program will enable these motivated students to coordinate the required B.S. coursework (114 undergraduate credit hours plus 6 dual credit graduate courses) and non-thesis M.S. coursework (36 credit hours including the 6 dual credit graduate courses) to complete the required credit hours for each degree without diminishing scope or quality of work and within 5 years.

Application and Eligibility:

- Applications to the Fast Track program will be submitted by July 1 after the completion of the student’s junior year. Applications submitted after that time will be evaluated on a case by case basis.
- Applicants must have a minimum undergraduate GPR of 3.0. Applicants must also earn a C or better in all Chemistry, Calculus and Physics courses. Once admitted to the program, students must maintain a minimum 3.0 GPR.
- A faculty advisor will be assigned to each student. Students may seek additional mentors, but a formal committee is not required.
- Students admitted into the Fast Track program must finish the entire 150 credit hours to obtain both the Bachelor’s and Master’s degrees. These students will be conferred with two degrees once they complete the 5th year of the concurrent program.
- Students admitted to the program will change from U4 to G7 status when they are admitted having completed at least 96 hours (end of spring semester, year 3).
- Students not accepted or not allowed to continue with the Fast Track Program will complete the 120 hour Bachelor’s degree under the standard 4 year curriculum. These students may still apply to the traditional graduate program.
- Students will graduate at the completion of the 5th year in the Fast Track Program coursework (150 credit hours) with both Bachelor’s and Master’s degrees. Students will complete the coursework in May of the 5th year.
## Draft Degree Plan:

### Year 1 - Semester 1
- GEOL 104 Physical Geology (4)
- CHEM 101 Fundamental Chemistry I (3)
- CHEM 111 Fundamental Chemistry Lab I (1)
- MATH 151 Engineering Math I (4)
- ENGL 104 Comp and Rhetoric (3)
- GEOS First Year Seminar (1)

**Total: 16 Credit hours (undergraduate)**

### Year 1 - Semester 2
- GEOL 106 Historical Geology (4)
- CHEM 102 Fundamental Chemistry II (3)
- CHEM 112 Fundamental Chemistry II Lab (1)
- MATH 152 Engineering Math II (4)
- Communications elective (3)

**Total: 15 Credit hours (undergraduate)**

### Year 2 - Semester 1
- GEOL 203 Mineralogy (4)
- GEOL 311 Geologic Writing (1)<sup>2</sup>
- GEOP 341 Introduction to Global Geophysics (3)
- PHYS 218 Mechanics (4)
- MATH 251 Engineering Math III (3)

**Total: 15 Credit hours (undergraduate)<sup>1</sup>**

### Year 2 - Semester 2
- GEOL 302 Introduction to Petrology (4)
- GEOL 306 Sedimentology and Stratigraphy (4)
- PHYS 219 Electricity and Optics (4)
- POLS 206 American National Government (3)
- MATH 308 Differential Equations

**Total: 18 Credit hours (undergraduate)<sup>1</sup>**

### Year 3 - Semester 1
- GEOL 451 Intro to Geochemistry (3)
- GEOL 305 Paleobiology (3)
- GEOL 309 Intro to Geol Field (3)
- POLS 207 State and Local Government (3)
- HIST 105 History of the United States (3)

**Total: 15 Credit hours (undergraduate)<sup>1</sup>**

### Year 3 - Semester 2
- GEOL 304 Igneous and Metamorphic Petrology (4)
- GEOL 312 Structure and Tectonics<sup>2</sup> (4)
- GEOL Elective<sup>2</sup> (3)
- OCNG 430 Introduction to Geological Oceanography (3)<sup>3</sup> [Tech elective]
- Visual/Performing Arts elective (3)

**Total: 17 Credit hours (undergraduate)<sup>1</sup>**

### Year 3 - Summer
- GEOL 300 Field Camp(6)

**Total: 6 Credit hours (undergraduate)**

### Admission Process

**Apply:** End of junior year after 6 semesters; minimum GPR = 3.0.

**Decision:** August prior to starting graduate course work in Fall of Senior Year.

**Change to graduate status (G7).**

**Apply** for graduate degree plan upon approval of G7 status.
### Year 4 - Semester 1
- Social/Behavioral elective (3)
- HIST 106 History of the United States (3)
- OCNG 604 Ocean Observing Systems (3)\(^4\) [supporting coursework; Tech elective]
- OCNG 608 Physical Oceanography (3)\(^4\) [supporting coursework; Tech elective]
- Oceanography 603-Communicating Ocean Science (3)

**Total: 15 credit hours (6 undergraduate, 6 dual undergrad/grad, 3 graduate)**

### Year 4 - Semester 2
- Tech Elective (3)
- Humanities elective (3)
- OCNG 657 Data Methods and Graphical Representation in Oceanography (3)\(^3\)
- OCNG 620 Introduction to Biological Oceanography (3)\(^3\)
- OCNG 640 Introduction to Chemical Oceanography (3)\(^4\)

**Total: 15 credit hours (6 undergraduate, 9 graduate)**

### Year 5 - Semester 1
- Advanced specialized OCNG graduate course (3)
- Advanced specialized OCNG graduate course (3)
- Advanced specialized OCNG graduate course (3)

**Total: 9 credit hours (9 graduate)**

### Year 5 - Semester 2
- Advanced specialized OCNG graduate course (3)
- Advanced specialized OCNG graduate course (3)
- Capstone experience II (non-thesis capstone course to be created) (3)

**Total: 9 credit hours (9 graduate)**

**Total undergraduate credit hours: 120**
**Total graduate credit hours: 36 (36 credits required for non-thesis MOST)**
**Total credits actually taken: 150**

**Notes:**
1. Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.
2. Please note carefully that a second W course is required. GEOL 312 is offered as a W option when taught by Dr. Julie Newman, and other GEOL electives also fulfill the W requirement (including GEOL 491 when arranged with the permission of the instructor).
3. Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 410/608, OCNG 440/640; GEOS 470/OCNG 657)
4. These 2 graduate courses will be taken for dual undergraduate/graduate credit.
Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

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<td>Evaluation Term</td>
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<td>Expected Graduation Date</td>
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Program GPA: Yes, 3.50
Overall GPA: No, 2.30

Other Course Information

Transfer: 0.000

This is NOT an official evaluation.

Area Major Coursework (51.000 credits) - Not Met:

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Unofficial evaluation

Area Supporting Coursework (12.000 credits) - Not Met:

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unofficial evaluation

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

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Select 3 hours from any courses with the Communication attribute [KCOM].

Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area Mathematics (14.000 credits) - Not Met**

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Total Credits and GPA 0.000 0.00

unofficial evaluation

**Area Life and Physical Sciences (16.000 credits) - Not Met**

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Total Credits and GPA 0.500 0.00

unofficial evaluation

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

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<td>Lang, Phil, Culture Rqm: 3hrs</td>
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Select any course with the Language, Philosophy and Culture attribute [K1 P1].

Total Credits and GPA 0.000 0.00

unofficial evaluation

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

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unofficial evaluation

Area: Social and Behavioral Sciences (3.000 credits) - Not Met
Description: Select from courses with the Social and Behavioral Science attribute [KSOC].

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unofficial evaluation

Area: Citizenship (12.000 credits) - Not Met
Description: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

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<th>High</th>
<th>Required</th>
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<td></td>
<td>B. Political Science Reqmt 6hrs</td>
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unofficial evaluation

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

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<td>A. Courses not applied</td>
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unofficial evaluation

Area: University Writing Requirement - Not Met
Description: Only sections of GEOL 301, 311, 312, 420, 440, 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.

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unofficial evaluation
unofficial evaluation

Area: Foreign Language - Not Met

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Complete one of the following:
1. Two years of the same foreign language in high school.
2. A two semester sequence of the same foreign language for University credit.

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Area: Residence Requirement - Not Met

Description: A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

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<tr>
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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</th>
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<td>Residence-Major 12 hrs</td>
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Select from GEOL 305-499 and GEOG 400-499.

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<td>B</td>
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Select any 300 or 400 level course.

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Area: GPR-Major - Not Met

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<th>Rule Subject Attribute</th>
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Includes: CHEM 100-499; GEOL 100-499; GEOG 100-499; MATH 151-152, 171-172, 221, 251, 253, 308, 311, 412; PHYS 208, 218, 219, 221, 302, 304.

unofficial evaluation

Back to Display Options
MEMORANDUM

To:    Dr. Chris Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences

To:    Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences

From:  Dr. Debbie Thomas, Interim Department Head, Oceanography
        Dr. Ping Yang, Department Head, Atmospheric Sciences

RE: Joint degree program between Oceanography and Atmospheric Sciences

I have attached a proposal for a Fast Track Dual Degree Program for Meteorology (B.S.) and Oceanography (non-thesis M.S.). The proposal has been approved by both Atmospheric Sciences and Oceanography.

Please let me know if any additional information is needed.
Fast Track Dual Degree Program for Meteorology (B.S.) and Oceanography (non-thesis M.S.)

Purpose:

The Fast Track Program offers motivated and exceptional students the opportunity to achieve aspirations in an efficient program at Texas A&M, completing the Bachelor of Science (B.S.) degree in the Department of Atmospheric Sciences Meteorology Program and the Oceanography non-thesis M.S. degree in 5 years. There will be only two courses used for dual credit in this program. There is a total of 150 hours of coursework. The concurrent degree program will enable these motivated students to coordinate the required B.S. coursework (114 undergraduate credit hours plus 6 dual credit graduate courses) and non-thesis M.S. coursework (36 credit hours including the 6 dual credit graduate courses) to complete the required credit hours for each degree without diminishing scope or quality of work and within 5 years.

Application and Eligibility:

- Applications to the Fast Track program will be submitted by July 1 after the completion of the student’s junior year. Applications submitted after that time will be evaluated on a case by case basis.
- Applicants must have a minimum undergraduate GPR of 3.0. Applicants must also earn a C or better in all Chemistry, Calculus and Physics courses. Once admitted to the program, students must maintain a minimum 3.0 GPR.
- A faculty advisor will be assigned to each student. Students may seek additional mentors, but a formal committee is not required.
- Students admitted into the Fast Track program must finish the entire 150 credit hours to obtain both the Bachelor’s and Master’s degrees. These students will be conferred with two degrees once they complete the 5th year of the concurrent program.
- Students admitted to the program will change from U4 to G7 status when they are admitted having completed at least 99 hours (end of spring semester, year 3).
- Students not accepted or not allowed to continue with the Fast Track Program will complete the 120 hour Bachelor’s degree under the standard 4 year curriculum. These students may still apply to the traditional graduate program.
- Students will graduate at the completion of the 5th year in the Fast Track Program coursework (150 credit hours) with both Bachelor’s and Master’s degrees. Students will complete the coursework in May of the 5th year.
### Draft Degree Plan:

<table>
<thead>
<tr>
<th>Year 1 – Semester 1</th>
<th>Year 1 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO 201 Atmospheric Sciences (3)</td>
<td>ATMO 203 Weather Forecasting Lab (1)</td>
</tr>
<tr>
<td>CHEM 101/111 Fundamental Chemistry (4)</td>
<td>CHEM 102/112 Fundamental Chemistry II (4)</td>
</tr>
<tr>
<td>MATH 171 Analytical Geom. And Calc. (4)</td>
<td>MATH 172 Calculus (4)</td>
</tr>
<tr>
<td>ENGL 104 Comp and Rhetoric (3)</td>
<td>PHYS 218 Mechanics (4)</td>
</tr>
<tr>
<td>GEOS First Year Seminar (1)</td>
<td>History or Political Science elective (3)</td>
</tr>
<tr>
<td><strong>Total: 15 Credit hours (undergraduate)</strong></td>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Year 2 – Semester 1</th>
<th>Year 2 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO 251 Weather Obs. And Analysis (3)</td>
<td>ATMO 324 Physical &amp; Regional Climatology (3)</td>
</tr>
<tr>
<td>ATMO 363 Atmospheric Chemistry (3)</td>
<td>MATH 308 Differential Equations (3)</td>
</tr>
<tr>
<td>MATH 251 Engineering Math III (3)</td>
<td>PHYS 208 Electricity and Optics (4)</td>
</tr>
<tr>
<td>ATMO 321 or computer science elective (3)</td>
<td>History or Political Science elective (3)</td>
</tr>
<tr>
<td>History elective (3)</td>
<td>Social and Behavioral Sciences elective (3)</td>
</tr>
<tr>
<td>General elective (3)</td>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
</tr>
<tr>
<td><strong>Total: 18 Credit hours (undergraduate)</strong></td>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Year 3 – Semester 1</th>
<th>Year 3 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO 335 Atmospheric Thermodynamics (3)</td>
<td>ATMO 435 Synoptic Dynamic Meteorology (3)</td>
</tr>
<tr>
<td>ATMO 336 Atmospheric Dynamics (4)</td>
<td>ATMO or tech elective (3)²</td>
</tr>
<tr>
<td>STAT 211 Principles of Statistics (3)</td>
<td>ATMO or tech elective (3)²</td>
</tr>
<tr>
<td>History or Political Science elective (3)</td>
<td>Communication elective (3)</td>
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<tr>
<td>General Elective (3)</td>
<td>Humanities elective (3)</td>
</tr>
<tr>
<td><strong>Total: 16 Credit hours (undergraduate)</strong></td>
<td>Visual and performing arts elective (3)</td>
</tr>
<tr>
<td><strong>Total: 18 Credit hours (undergraduate)</strong></td>
<td>**Total: 18 Credit hours (undergraduate)**²</td>
</tr>
</tbody>
</table>

### Admission Process

**Apply:** End of junior year after 6 semesters; minimum GPR = 3.0.

**Decision:** August prior to starting graduate course work in Fall of Senior Year.

**Change** to graduate status (G7).

**Apply** for graduate degree plan upon approval of G7 status.
<table>
<thead>
<tr>
<th>Year 4 – Semester 1</th>
<th>Year 4 – Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO 446 Physical Meteorology (3)</td>
<td>ATMO or Technical elective (3)²</td>
</tr>
<tr>
<td>ATMO Inst/Remote Sensing elective (3)</td>
<td>General elective (3)</td>
</tr>
<tr>
<td>ATMO or tech elective (3)²</td>
<td>OCNG 657 Data Methods and Graphical Representation in Oceanography (3)⁴</td>
</tr>
<tr>
<td>OCNG 604 Ocean Observing Systems (3)²,³</td>
<td>Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)⁴ (3)</td>
</tr>
<tr>
<td>[supporting coursework; Tech elective]</td>
<td>Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)⁴ (3)</td>
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<tr>
<td>OCNG 608 Physical Oceanography (3)²,³</td>
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<tr>
<td>[supporting coursework; Tech elective]</td>
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<tr>
<td>Oceanography 603-Communicating Ocean Science (3)</td>
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</table>

**Total: 18 credit hours (9 undergraduate, 6 dual undergrad/grad, 3 graduate)**

<table>
<thead>
<tr>
<th>Year 5 – Semester 1</th>
<th>Year 5 – Semester 2</th>
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</thead>
<tbody>
<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Advanced specialized OCNG graduate course (3)</td>
</tr>
<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Advanced specialized OCNG graduate course (3)</td>
</tr>
<tr>
<td>Advanced specialized OCNG graduate course (3)</td>
<td>Capstone experience II (non-thesis capstone course to be created) (3)</td>
</tr>
</tbody>
</table>

**Total: 9 credit hours (9 graduate)**

**Total undergraduate credit hours: 120**

**Total graduate credit hours: 36 (36 credits required for non-thesis MOST)**

**Total credits actually taken: 150.**

**Notes:**

1. Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.
2. If students use 9 credits of allowed OCNG courses (e.g. OCNG 251 or OCNG 401, OCNG 252, OCNG 350, OCNG 451, OCNG 485) as technical electives and general electives, they will receive an OCNG minor with their METR B.S.
3. These 2 graduate courses will be taken for dual undergraduate/graduate credit and will contribute to the minor.
4. Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 440/640; GEOS 470/OCNG 657)
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation Geology: Only one course from GEOL 101, 103 and 104 may be used for this degree.

Program:
- BS METR
- College Station
- Geosciences
- Bachelor of Science
- Meteorology
- Atmospheric Sciences

Catalog Term:
- Fall 2014 - College Station
- Fall 2014 - College Station

Evaluation Term:
- Expected Graduation Date: 1
- Request Number: 1
- Results as of: Oct 14, 2014
- Concentrations:

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<th>Courses</th>
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<td>Used</td>
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Total Required: 0

Program GPA: Yes
- .00

Overall GPA: Nc
- 2.00

Other Course Information

This is NOT an official evaluation.

Area Major Coursework (48.000 credits) - Not Met:

Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source

No

AND A. ATMO 201

AND B. ATMO 203

AND C. ATMO 251

AND D. ATMO 324

AND E. ATMO 331

AND F. ATMO 336

AND G. ATMO 363

AND H. ATMO 435

AND I. ATMO 446

AND J. ATMO Elect 3hrs

AND K. METR Additional Reqmt 19hrs

Select from ATMO 281, 300-499 (except ATMO 321); CEGS 400-499; GEOS 400-499; MATH 311-499; METR 400-499. Up to 3 hours may be ATMO 484-485 Internship and up to 6 hours may be ATMO 484-485 Internship. SCSC 301; BESC 403; BIOL 111; FRSC 302, 304; CHEM 227, 237.

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Area Supporting Coursework (3.000 credits) - Not Met

Met: Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source

https://howdy.tamu.edu/render..
### Area Communication (6.000 credits) - Not Met

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<th>Subject Course</th>
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Total Credits and GPA 0.000 .00

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Total Credits and GPA 0.000 .00

### Area Life and Physical Sciences (18.000 credits) - Not Met

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<th>Subject Attribute</th>
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<th>Term</th>
<th>Subject Course</th>
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<td>1. 4 hours required. Take CHEM 101.</td>
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<td>2. 4 hours required. Take CHEM 101 and 111.</td>
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<td>1. 4 hours required. Take CHEM 102.</td>
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<td>2. 4 hours required. Take CHEM 102 and 112.</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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<th>Condition</th>
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<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Credits</th>
<th>Grade</th>
<th>Source</th>
</tr>
</thead>
</table>

Total Credits and GPA 0.000 .00

Select from ATMO 321; CSCE 200. ATMO 321 is recommended.

unofficial evaluation

unofficial evaluation

unofficial evaluation

unofficial evaluation

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unofficial evaluation
unofficial evaluation

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

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<th>Condition</th>
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<th>Subject Attribute</th>
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Total Credits and GPA 0.000 .00

unofficial evaluation

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

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<th>Condition</th>
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<tbody>
<tr>
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<td>Social Science Rqmt 3hrs</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Citizenship (13.500 credits) - Not Met

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<tbody>
<tr>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area General Electives (9,000 credits) - Not Met

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<tr>
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<td>General Electives 9hrs</td>
<td>General Electives 9hrs</td>
<td>Select any course from 100-499 not used elsewhere. (Except AERS 100-499; BUSN 100; CAEN 100-499; CAEX 100-499; DEYS 100-499; ENGL 100, 103; KINE 198, 199; LBAR 201; MATH 102, 103, 131, 141, 142, 150, 151, 152, 166, 171, 172, 221, 251, 253; HLSL 100-499; IVSC 100-499; PHYS 101, 201, 202, 208, 218, 219; SOMS 100-499; STL 100-499.)</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Area Work Not Applied - Met

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unofficial evaluation

Area University Writing Requirement - Not Met

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Writing Requirement

Two courses required.
Only sections of ATMO 456, 459, 463; UGST 491 with the Writing attribute [WWRT] may be used to satisfy this requirement.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Int'l & Cult Diversity - Not Met

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Int'l & Cultural Diversity 8hr

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

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Foreign Language - Not Met

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Foreign Language Reqmt

Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Residence Requirement - Not Met

Description A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

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Residence-Major 12hrs

Select from ATMO 300-499.

No AND B. Residence 300-499 24hrs

Select any 300 or 400 level courses.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area GPR-Major - Not Met

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<td>Select from ATMO 100-499, GEOS 100-499,</td>
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Total Credits and GPA 0.000 .00

unofficial evaluation

Back to Display Options
June 17, 2015

TO: Sandra Williams
    Associate Registrar

FROM: Larry Bellinger, PhD
      Associate Dean

RE: Remove courses from inventory

The Texas A&M University Baylor College of Dentistry has two programs that were eliminated because of the THECB low performance rule, the Advanced Education in Dental Hygiene and Health Professions Education. Many of the courses in the course inventory were re-named/re-numbered and moved into the College of Medicine’s Education for Healthcare Professionals MS program. However, curricular action forms to eliminate the former course names and numbers associated with these eliminated programs have not been processed in order to remove them in COMPASS and the new catalog.

Per your instructions, I am providing a list of the course numbers and titles that should be eliminated. The one exception is HPED 5225 Teaching Skills for Health Professions Educators, which graduate students in most of TAMBCD’s programs still take. This course has not been included in the list below.

Courses to be eliminated in Advanced Education in Dental Hygiene (AEDH)
5100. Advanced Dental Hygiene Clinical Skills. (0-1). Credit 1.
5112. Faculty Responsibilities and Issues in Higher Education. (0-1).
5118. Hospital Administration Practicum II. (0-1). Credit 1.
5130. Clinical Dental Hygiene Teaching Practicum. (0-1). Credit 1.
5202. Teaching Strategies Dental Hygiene ED II. (0-2). Credit 2.
5208. Hospital Administration Practicum I. (0-2). Credit 2.
5210. Special Care Patient Seminar. (0-2). Credit 2.
5211. Clinical Case Study. (0-2). Credit 2.
5219. Hospital Administration Practicum III. (0-2). Credit 2.
5301. Didactic Teaching Strategies. (1-1). Credit 2.
5314. Classroom Teaching Practicum. (0-1). Credit 1.
5V88. Research for Practicum Project. Credit 1 to 3.
5V89. Practicum Project. Credit 1 to 3.
5V98. Research for the Master’s Thesis. Credit 0 to 3.

Courses to be eliminated in Health Professions Education (HPED)
5V13. Teaching Internship. Credit 0 to 5.
5V25. Research Practicum. Credit 0 to 5.
5V26. Literature Review Seminar. Credit 0 to 5.
5V27. Teaching Practicum. Credit 0 to 5.
5V98. Research for Thesis. Credit 0 to 5.
5V99. Thesis. Credit 0 to 5.