REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department: Music
College: Music & Dramatic Arts
Name of Minor: Music
Date: May 18, 2016

Has this change been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet. ATTACH RESPONSE from any departments affected (i.e. any department whose course(s) are to be added).

ACTION (check appropriate box):

( ) ADDING: Show the entire new minor using catalog format. Use plain sheets and attach.
( X ) CHANGING: List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column use strikeout and bold to indicate deletions and additions. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the minor on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the minor on plain sheets and attach.

MINOR

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current minor:</td>
<td>22-24 hours</td>
</tr>
<tr>
<td>• Audition</td>
<td>• Audition or acceptance into an academic field of study</td>
</tr>
<tr>
<td>• MUS 1740, MUS 1741</td>
<td>• MUS 1705 (Music History: The Musician in Society)</td>
</tr>
<tr>
<td>• MUS 2731 &amp; MUS 2732 OR MUS 2053 &amp; MUS 2054</td>
<td>• MUS 1799 (Music Theory: Rudiments of Music)</td>
</tr>
<tr>
<td>• 12 hours of the appropriate applied major</td>
<td>• 11 hours of applied lessons or academic courses in the school of Music</td>
</tr>
<tr>
<td>• (at least 6-semester hours taken at 3000 or 4000 level)</td>
<td>• (at least 3 hours of music electives should be at 3000 or 4000 level; performance minors should register for 3000-level or higher applied lessons)</td>
</tr>
<tr>
<td>• Each music minor course passed with C or better</td>
<td>• Each music minor course passed with C or better</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: May 18, 2016
M. Todd Queen 5/19/16

Department Chair's Signature: John B Hopko 7/15/16
Chair, FS C & C Committee

College Faculty Approval Date: 5/18/16
M. Todd Queen 5/19/16

College Dean's Signature: 7/26/16

College/Division/Department Contact: Ruth Alise (Please print name.)
Contact Email: ralise@lsu.edu
Justification for CHANGING the Music Minor

Recent changes to the music history and music theory courses necessitated a change in our current music minor curriculum (previous prerequisites MUS 1740, 1741, 2731, 2732, 2053 and 2054 have been dropped). In an effort to make the minor more accessible to those who wish to pursue academic fields, rather than a performance course of study, within the music curriculum we are proposing only one semester each of our entry-level music history (MUS 1705) and music rudiments/theory (MUS 1799) should be required. Once admitted to the music minor, the remaining 11 hours of electives will be chosen from music course offerings, in conjunction with a student’s academic advisor, to complete coursework within an academic or performance area of study. Based on current course offerings, we have lowered the required hours at the 3000 and 4000 level from 6 to 3. However, performance minors will be expected to register for applied lessons at a 3000 level or higher (thus, demonstrating basic performance competence).
Request for **CHANGING** an Existing Course

**Department**: Environmental Sciences  
**Course Number**: ENVS 3999  
**College**: Coast & Environment  
**Date**: March 1, 2016

---

**PRESENT COURSE DESCRIPTION**

<table>
<thead>
<tr>
<th>Title</th>
<th>Undergraduate Research</th>
</tr>
</thead>
</table>

**Semester Hours of Credit**: 1 - 4

- If combination course type, # hrs. of credit for:
  - Lecture: __________
  - Lab/Sem/Rec: __________
- Repeat Credit Max. (If repeatable): 4 max

**Graduate Credit?**  Yes ____  No X

Credit will not be given for this course and:

**Contact Hours Per Week**: (Indicate hours in appropriate course type.)

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Recitation</th>
<th>Intern</th>
<th>Res/Ind</th>
<th>Clin/Pract</th>
</tr>
</thead>
</table>

**Total Weekly Contact Hours**: __________

**Grading System**: Letter Grade ________  Pass/Fail ________

**Course Description**:

ENVS 3999 Undergraduate Research (1 - 4)  
Prereq: permission of instructor. **May be taken for a maximum of 4 hrs. of credit.** Individual study of a specific environmental problem or individual laboratory research.

---

**PROPOSED COURSE DESCRIPTION**

<table>
<thead>
<tr>
<th>Title</th>
<th>Undergraduate Research</th>
</tr>
</thead>
</table>

**Short Title**: UNDERGRAD RES

**Semester Hours of Credit**: 1 - 6

- If combination course type, # hrs. of credit for:
  - Lecture: __________
  - Lab/Sem/Rec: __________
- Repeat Credit Max. (If repeatable): 6 max

**Graduate Credit?**  Yes ____  No X

Credit will not be given for this course and:

**Contact Hours Per Week**: (Indicate hours in appropriate course type.)

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Recitation</th>
<th>Intern</th>
<th>Res/Ind</th>
<th>Clin/Pract</th>
</tr>
</thead>
</table>

**Total Weekly Contact Hours**: __________

**Grading System**: Letter Grade ________  Pass/Fail ________

**Course Description**:

ENVS 3999 Undergraduate Research (1 - 6)  
Prereq: permission of instructor. **May be taken for a maximum of 6 hrs. of credit.** Individual study of a specific environmental problem or individual laboratory research.

---

THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.

- Has this change been discussed with and approved by all departments/colleges affected? Yes X  No _____ N/A
- Is this course included in any curricula, concentrations, or minors? Yes X  No ____ If yes, please list on a separate sheet.
- Is this course a prerequisite or corequisite for other courses? Yes ____  No X  If yes, list courses; use separate sheet.
- Is this course on the General Education list? Yes ____  No X

JUSTIFICATION/EXPLANATION: Use separate sheet.

**APPROVALS**

**Department Faculty Approval Date**: April 8, 2016  
**College Faculty Approval Date**:  
**College Dean Signature**:  
**Chair, F.S.C.C. Committee**:  
**Academic Affairs Approval**:  

---

**Department Chair Signature**:  
**Graduate Dean Signature**:  
**College Contact**:  
**E-mail**: 
Instructions for Form C: Request for Changing a Course

Curriculum listing of ENVS 3999:
The Environmental Science & Research (ESR) Concentration in the Coastal Environmental Science (CES) bachelor degree program requires 2 hours credit in ENVS or OCS 3999. Undergraduate research (ENVS 3999 or OCS 3999) may also be taken as an approved elective in the CES degree program.

Justification:
The present request to increase the maximum hours credit allowable for ENVS 3999 from 4 to 6 credit hours, is simply to avoid penalizing undergraduate students pursuing additional research credit hours in an instructor in the Department of Environmental Sciences as opposed to the Department of Oceanography & Coastal Sciences. Students in the Coastal Environmental Science bachelor degree program may enroll in either ENVS 3999 or OCS 3999 for undergraduate research. The home department of the instructor under which the student has chosen to perform undergraduate research for credit determines the course rubric, ENVS or OCS. OCS 3999 presently enables students to register for up to 6 hours credit, while ENVS 3999 has a maximum of 4 hours credit. This has created problems for students working in laboratories of ENVS instructors. Although undergraduate students enrolled in the ESR (Environmental Science & Research) Concentration in the CES degree program are only required to take 2 hour credit of ENVS or OCS 3999, many of these student take additional hours credit due to their interest in research endeavors. The additional credit hours in 3999 are often utilized to maintain their fulltime student status.
Request for **CHANGING** an Existing Course

<table>
<thead>
<tr>
<th>Department</th>
<th>Oceanography and Coastal Sciences</th>
<th>College</th>
<th>Coast and Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Rubric &amp; Number</td>
<td>OCS2008 Intro Marine Sciences: Life Processes</td>
<td>Date</td>
<td>03/17/2016</td>
</tr>
</tbody>
</table>

### PRESENT COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>Title</th>
<th>Introduction to Marine Sciences: Life Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>4</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td>Lecture: 3</td>
</tr>
<tr>
<td>Repeat Credit Max. (If repeatable):</td>
<td>Lab/Sem/Rec: 1</td>
</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit will not be given for this course and:</td>
<td></td>
</tr>
<tr>
<td>Contact Hours Per Week: (Indicate hours in appropriate course type.)</td>
<td></td>
</tr>
<tr>
<td>Lecture</td>
<td>Lab</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total Weekly Contact Hours:</td>
<td>6</td>
</tr>
<tr>
<td>Grading System:</td>
<td>Letter Grade [x]</td>
</tr>
</tbody>
</table>

**Course Description:**
(Include course number, title, etc. exactly as it appears in the General Catalog)

**OCS 2008 Introduction to Marine Sciences: Life Processes (4)**
Also offered as BIOL 208 at Southern University in Baton Rouge. Laboratory and fieldtrips are required for this course. 3 hrs. lecture; 3 hrs. lab. Ecological processes in marine and aquatic settings; their influence on coastal Louisiana.

### PROPOSED COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>Title</th>
<th>Introduction to Marine Sciences: Life Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Title</td>
<td>M A R I N E  L I F E  P R O C E S S E S</td>
</tr>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td>Lecture: 3</td>
</tr>
<tr>
<td>Repeat Credit Max. (If repeatable):</td>
<td>Lab/Sem/Rec: 0</td>
</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit will not be given for this course and:</td>
<td></td>
</tr>
<tr>
<td>Contact Hours Per Week: (Indicate hours in appropriate course type.)</td>
<td></td>
</tr>
<tr>
<td>Lecture</td>
<td>Lab</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Weekly Contact Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Grading System:</td>
<td>Letter Grade [x]</td>
</tr>
</tbody>
</table>

**Course Description:**
(Include course number, title, etc. exactly as it appears in the General Catalog)

**OCS 2008 Introduction to Marine Sciences: Life Processes (3)**
Marine organisms, communities, ecological processes in marine and aquatic settings in coastal Louisiana, the Gulf of Mexico and elsewhere.

---

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected?  Yes  No  N/A  
Is this course included in any curricula, concentrations, or minors?  Yes [x]  No  
If yes, please list on a separate sheet.  
Is this course a prerequisite or corequisite for other courses?  Yes  No  
If yes, list courses; use separate sheet.  
Is this course on the General Education list?  Yes  No  [x]  

**JUSTIFICATION/EXPLANATION:** Use separate sheet.  

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

---

### APPROVALS

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>4/29/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair Signature</td>
<td></td>
</tr>
<tr>
<td>Graduate Dean Signature</td>
<td></td>
</tr>
<tr>
<td>College Contact E-mail</td>
<td></td>
</tr>
</tbody>
</table>

**College Faculty Approval Date**  
**Dean Signature**  
**Chair of F&S Committee**  
**Academic Affairs Approval**  

**Effective 25/11/17**
Justification for Change

OCS2008 is a required course for the Coastal Environmental Sciences (CES) major in the College of the Coast and Environment. The course presently consists of a lecture and laboratory. With increasing enrollment, we began to offer this course in both the spring and fall semesters with an enrollment cap of 25 students. The laboratory portion of the course has proven to be problematic owing to the number of students in the course given available laboratory space and because of logistical constraints on the number of students that can be transported to the LUMCON laboratory in Cocodrie for one of the field trips. Similar issues are being faced by a related class OCS2007: Introduction to Marine Science: Geological and Physical. Consequently, we would like to remove the laboratory component from both OCS2008 and OCS2007 and combine those two laboratories into a new course OCS2020 Introduction to Marine Science: Field and Laboratory Methods (2 credit hours). Related documents are the request for creation of a new course and a request to modify OCS2007. This change will not alter the number of hours required for completion of the CES major.

Removing the laboratory component from this class will enable us to offer it to larger numbers of students. The laboratory component will be redesigned to provide a more holistic learning experience for students that combines biological, chemical, physical, and geological oceanographic topics. OCS2008 and OCS2007 will be prerequisites for the proposed laboratory course.

OCS2008 is offered at Southern University as BIOL208. We have notified the appropriate department at SU of our intention to request this course change to OCS2008.
SYLLABUS

Course Description
Introduction to Marine Life Processes is designed to familiarize you with the major groups of living organisms in the oceans/estuaries, the habitats that they occur in, and their ecological roles within these habitats. At the end of the class you will be able to describe the primary habitats in the ocean, the organisms that are typically found within these habitats, and the ecological factors at play in the different parts of the oceans. The class assumes that you have had introductory biology and have an understanding of chemical, physical, and geological oceanography (provided by OCS2007).

General Information
Instructor: Prof. Mark Benfield, 2179 ECE Building, Tel. 8-6372, Email: mbenifie@lsu.edu
TA: TBA

Office Hours
By appointment. Send me an email with your availability and I will respond quickly to set up a time for a meeting.

Class Times
Lecture: Tue/Thu 10:30 – 11:50

Textbook
Our textbook is Castro and Huber, Marine Biology 8th Edition. Given the price of this textbook, I do not recommend buying a new version. Instead you can obtain the book new or used at a highly discounted price from various sources on the web. You may also rent the textbook. I suggest the following options: (1) Rental (Amazon) $22.33; or Purchase Used (Amazon) ~$40.

Moodle
Our class Moodle page will be operational by the end of the first week of the Semester. You can use Moodle to check your grades, upload assignments, communicate with the instructor, and share interesting items relating to the course with the other students. Moodle uses your official LSU email address for communication. Please ensure you check your LSU email regularly or have it forwarded to your preferred email account so that you do not miss important communications.

Grading
LSU is now using a +/- grading system. The letter grades A, B, C, and D will have the suffix plus (+) or minus (-) included to distinguish higher and lower performances within each of the letter grades. The grade F (<60.0%) will not have the plus/minus distinction.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>&lt;90.0</td>
<td>87.0</td>
</tr>
<tr>
<td>A</td>
<td>&lt;97.0</td>
<td>93.0</td>
</tr>
<tr>
<td>A-</td>
<td>&lt;93.0</td>
<td>90.0</td>
</tr>
<tr>
<td>B+</td>
<td>87.0</td>
<td>83.0</td>
</tr>
<tr>
<td>B</td>
<td>&lt;97.0</td>
<td>93.0</td>
</tr>
<tr>
<td>B-</td>
<td>&lt;93.0</td>
<td>90.0</td>
</tr>
<tr>
<td>C+</td>
<td>80.0</td>
<td>77.0</td>
</tr>
<tr>
<td>C</td>
<td>&lt;77.0</td>
<td>73.0</td>
</tr>
<tr>
<td>C-</td>
<td>&lt;73.0</td>
<td>70.0</td>
</tr>
<tr>
<td>D+</td>
<td>70.0</td>
<td>67.0</td>
</tr>
<tr>
<td>D</td>
<td>&lt;70.0</td>
<td>63.0</td>
</tr>
<tr>
<td>D-</td>
<td>&lt;63.0</td>
<td>60.0</td>
</tr>
</tbody>
</table>

A+ to A– indicates distinguished mastery of the course material.
B+ to B– indicates good mastery of the course material.
C+ to C– indicates acceptable mastery of the course material.
D+ to D– indicates the minimally acceptable achievement in the course.
Your grade will be based on the following assignments/activities:

- **In-class quizzes:** 15 quizzes @ 4% per quiz = 60%
- **Mid-semester Exam** 20% = 20%
- **Final Exam** 20% = 20%
- **Total** 100%

Quizzes will consist of 5 – 10 short questions (short answers, diagrams, fill-in-the-blanks). The Mid-semester examination will cover all material up to and including the week prior to the midsemester exam (see Class Schedule). The Final Exam is comprehensive. Both the Mid-semester and Final examination will have the same types of questions as the quizzes. There will be no multiple-choice questions and a scantron will not be required. If you miss a quiz, you will only be allowed to make it up if your reason for being absent is documented in a manner that is acceptable to LSU.

**Class Schedule**

**Week 1** Chapter 1: The Science of Marine Biology and Oceanography
- Video 1: The Search for Trich Part 1, 2, 3
- Video 2: Women in Oceanography
- Audio 1: The Science of Studying

**Week 2** Chapter 4: Fundamentals of Biology
- Quiz 1: Chapter 1 and Videos 1 & 2.

**Week 3** Chapter 5: The Microbial World
- Quiz 2: Chapter 4
- Chapter 6: Multicellular Primary Producers
- Video 3: Ocean Realm – Cathedrals in the Sea

**Week 4** Chapter 7: Animals Without a Backbone Part 1
- Quiz 3: Chapter 5
- Chapter 7: Animals Without a Backbone Part 2

**Week 5** Chapter 8: Marine Fishes Part 1
- Video 4: Ocean Realm: Sharks
- Quiz 4: Chapter 6 and Video 3

**Week 6** Chapter 8: Marine Fishes Part 2
- Chapter 9: Marine Reptiles, Birds, and Mammals Part 1
- Quiz 5: Chapter 7 Part 1.

**Week 7** Chapter 9: Marine Reptiles, Birds, and Mammals Part 2
- Quiz 6: Chapter 7 Part 2.
- Chapter 10: Introduction to Marine Ecology Part 1
- Quiz 7: Chapter 8 Part 1 and Video 4.

**Week 8** Chapter 10: Introduction to Marine Ecology Part 2
- Quiz 8: Chapter 8 Part 2.
Mid-semester Review
Week 9  Mid-semester Examination
        Chapter 11: Between the Tides Part 1
        Video 5: Blue Planet: Tidal Seas

Week 10  Chapter 11: Between the Tides Part 2
        Quiz 9: Chapter 9 Parts 1 and 2.
        Chapter 12: Estuaries
        Quiz 10: Chapter 10 Parts 1 and 2.

Week 11  Chapter 13: Life on the Continental Shelf
        Quiz 11: Chapter 11 Parts 1 and 2 and Video 5.
        Chapter 14: Coral Reefs Part 1.
        Video 6: Blue Planet: Coral Seas
        Chapter 14: Coral Reefs Part 2.
        Quiz 12: Chapter 12

Week 13  Chapter 15: Life Near the Surface
        Video 7: Ocean Drifters
        Chapter 16: The Ocean Depths Part 1
        Video 8: Blue Planet: The Deep

Week 14  Chapter 16: The Ocean Depths Part 2
        Chapter 13.
        Chapter 17: Resources from the Sea
        Quiz 14: Coral Reefs Parts 1 and 2, Video 6.

Week 15  Chapter 18: The Impact of Humans on the Marine Environment
        Quiz 15: Chapter 15 and Video 7.
        Video 9: Plasticized.

Week 16  Review

**Class Preparation**
Please come to class on time and prepared to learn and contribute. Read the relevant chapter prior to the lecture. I will post Powerpoint presentations of the material to be covered in class on Moodle, prior to each lecture. Do not make the mistake of assuming that you can skip class and all that you need to do is go through the Powerpoint. When you are in class, stay focused and contribute.

In the first class we will listen to a very useful podcast on the Science of Studying. I hope that it will change the way you approach learning and memory. If you find yourself having trouble with any of the material, please contact me. Don’t wait until the end of the semester to seek help. Be proactive. There is no reason for anyone in the class to do poorly. I want you all to succeed.

---

**A SAMPLE SYLLABUS IS REQUIRED FOR ANY OF THE FOLLOWING:**
- A change in credit hours
- A change in the distribution of hours (combination course type)
- Any substantial change to the course description

NOTE: Form C is not to be used for changes in course rubric or numbering. When the number/rubric of a course is being changed, Form A and Form B must be submitted to add the course with the new number/rubric and to drop the course with the original number/rubric.

One original copy of each request must be submitted.

All questions must be answered. The course proposal will be delayed until the form is filled out completely and correctly. Proposals should be submitted early enough to obtain final approval before the desired effective date.

Dates of departmental and college approval of the proposal must be recorded. The Faculty Senate Courses and Curricula Committee will not consider curricular proposals that have not been approved by college/departmental curriculum committees. Please provide the college/division/departmental contact's name and email address, in case of further questions/concerns that may be related to the proposal.

Most items are self-explanatory. The complete present and proposed catalog entries must be provided. Proposed course descriptions should follow standard catalog format (See Appendix C for a key to catalog abbreviations and standard catalog wording). Although there is no specific word limit, course descriptions should be concise.

The short title appears on transcripts and in the scheduling booklet. It may not exceed 19 characters.

For group courses (lecture, lab, seminar, recitation) contact hours refer to the number of hours spent each week with faculty in a classroom or lab setting. For lecture, seminar, and recitation courses, contact hours are generally equal to semester credit hours. For laboratory courses, two or more laboratory contact hours are required to yield a single laboratory credit hour. For individual courses (such as research/ independent study, clinical practicum, or internships) contact hours are less well defined, as these courses may involve minimal contact with faculty in classroom settings. For these courses, contact hours are generally set to equal the maximum number of credit hours permitted for the course.

Departments with curricula that include this course and/or courses for which this course is a prerequisite or corequisite must be identified and notified in writing. Any responses from colleges/departments affected by the proposal should be attached to form C. If changes to this course affect any curricula, concentrations or minors, separate proposals to change any affected areas must also be submitted before this proposal will be presented to the Faculty Senate Courses and Curricula Committee.
If the course is on the general education list, the Faculty Senate General Education Committee must also be notified by the department.

If the course is cross-listed, catalog descriptions for both departments and approval signatures of each dean and chair concerned should be submitted.
# Request for Changing an Existing Course

**Present Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Introduction to Marine Sciences: Geological and Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>4</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td></td>
</tr>
<tr>
<td>Lecture:</td>
<td>3</td>
</tr>
<tr>
<td>Lab/Sem/Rec:</td>
<td>1</td>
</tr>
<tr>
<td>Repeat Credit Max. (If Repeatable):</td>
<td></td>
</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit will not be given for this course and:</td>
<td></td>
</tr>
<tr>
<td>Contact Hours Per Week:</td>
<td>(Indicate hours in appropriate course type.)</td>
</tr>
<tr>
<td>Lecture</td>
<td>3</td>
</tr>
<tr>
<td>Lab</td>
<td>3</td>
</tr>
<tr>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Recitation</td>
<td>3</td>
</tr>
<tr>
<td>Intern</td>
<td>3</td>
</tr>
<tr>
<td>Res/Ind</td>
<td>3</td>
</tr>
<tr>
<td>Clin/Pract</td>
<td>3</td>
</tr>
<tr>
<td>Total Weekly Contact Hours:</td>
<td>6</td>
</tr>
<tr>
<td>Grading System:</td>
<td>Letter Grade X</td>
</tr>
<tr>
<td>Course Description:</td>
<td>(Include course number, title, etc. exactly as it appears in the General Catalog)</td>
</tr>
<tr>
<td>OCS 2007 Introduction to Marine Sciences: Geological and Physical (4)</td>
<td>Lab fee and field trip required. 3 hrs. lecture; 3 hrs. lab. Geological and physical processes in marine and aquatic environments; including their influence on coastal Louisiana.</td>
</tr>
</tbody>
</table>

**Proposed Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Introduction to Marine Sciences: Geological and Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Title</td>
<td>PHYS GEO LP</td>
</tr>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td></td>
</tr>
<tr>
<td>Lecture:</td>
<td>3</td>
</tr>
<tr>
<td>Lab/Sem/Rec:</td>
<td>0</td>
</tr>
<tr>
<td>Repeat Credit Max. (If Repeatable):</td>
<td></td>
</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit will not be given for this course and:</td>
<td></td>
</tr>
<tr>
<td>Contact Hours Per Week:</td>
<td>(Indicate hours in appropriate course type.)</td>
</tr>
<tr>
<td>Lecture</td>
<td>3</td>
</tr>
<tr>
<td>Lab</td>
<td>3</td>
</tr>
<tr>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Recitation</td>
<td>3</td>
</tr>
<tr>
<td>Intern</td>
<td>3</td>
</tr>
<tr>
<td>Res/Ind</td>
<td>3</td>
</tr>
<tr>
<td>Clin/Pract</td>
<td>3</td>
</tr>
<tr>
<td>Total Weekly Contact Hours:</td>
<td>3</td>
</tr>
<tr>
<td>Grading System:</td>
<td>Letter Grade X</td>
</tr>
<tr>
<td>Course Description:</td>
<td>(Include course number, title, etc. exactly as it appears in the General Catalog)</td>
</tr>
<tr>
<td>OCS 2007 Introduction to Marine Sciences: Geological and Physical (3)</td>
<td>Geological and physical processes in marine and aquatic environments; including their influence on coastal Louisiana, the Gulf of Mexico and elsewhere.</td>
</tr>
</tbody>
</table>

These questions must be answered completely and accurately or proposal will be returned.

Has this change been discussed with and approved by all departments/colleges affected? Yes | No | N/A.

Is this course included in any curricula, concentrations, or minors? Yes | No.

If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes | No.

If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes | No.

Justification/Explanation: Use separate sheet.

Note: If course is OR will be cross-listed, separate forms must be submitted by each department.

**Approvals**

<table>
<thead>
<tr>
<th>Department/College Approval Date</th>
<th>4/29/2016</th>
<th>5/9/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair Signature</td>
<td>[Signature] (date)</td>
<td>[Signature] (date)</td>
</tr>
<tr>
<td>Graduate Dean Signature</td>
<td>[Signature] (date)</td>
<td>[Signature] (date)</td>
</tr>
<tr>
<td>College Contact</td>
<td>E-mail</td>
<td>[Signature] (date)</td>
</tr>
</tbody>
</table>

[Signature] (date)

Chaf. 15 CAC Committee | 7/10/16

[Signature] (date)

Academic Affairs Approval | 7/26/16
Justification for Change

OCS2007 is a required course for the Coastal Environmental Sciences (CES) major in the College of the Coast and Environment. The course presently consists of a lecture and laboratory. With increasing enrollment, we began to offer this course in both the spring and fall semesters with an enrollment cap of 25 students. The laboratory portion of the course has proven to be problematic owing to the number of students in the course given available laboratory space and because of logistical constraints on the number of students that can be transported to the LUMCON laboratory in Cocodrie for one of the field trips. Similar issues are being faced by a related class OCS2008: Introduction to Marine Science: Life Processes. Consequently, we would like to remove the laboratory component from both OCS2007 and OCS2008 and combine those two laboratories into a new course OCS2020 Introduction to Marine Science: Field and Laboratory Methods (2 credit hours). Related documents are the request for creation of a new course and a request to modify OCS2008. This change will not alter the number of hours required for completion of the CES major.

Removing the laboratory component from this class will enable us to offer it to larger numbers of students. The laboratory component will be redesigned to provide a more holistic learning experience for students that combines biological, chemical, physical, and geological oceanographic topics. OCS2008 and OCS2007 will be prerequisites for the proposed laboratory course.
Intro. Marine Science: Geological and Physical Oceanography
OCS 2007 3 credits

<table>
<thead>
<tr>
<th>Time and Place:</th>
<th>Instructor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture: Tues &amp; Thurs 10:30-11:50</td>
<td>Dr. Nan D. Walker, Associate Professor</td>
</tr>
<tr>
<td>Room: ECE 1070</td>
<td>Oceanography and Coastal Sciences</td>
</tr>
<tr>
<td></td>
<td>Howe-Russell West (Old Geology) 308A</td>
</tr>
<tr>
<td></td>
<td>Phone: 225-578-5331</td>
</tr>
<tr>
<td></td>
<td>252-0338 (emergency)</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:nwalker@lsu.edu">nwalker@lsu.edu</a></td>
</tr>
<tr>
<td></td>
<td>Office Hours: By appointment</td>
</tr>
<tr>
<td></td>
<td>Teaching Assistant:</td>
</tr>
<tr>
<td></td>
<td>Ms Shima Massiha, DOCS MS student</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:smassi5@tigers.lsu.edu">smassi5@tigers.lsu.edu</a></td>
</tr>
</tbody>
</table>

Lecture notes and other materials will be posted to Moodle or provided as class handouts.

Course Goals: To develop an awareness of the geological and physical processes that pertain to the Earth’s Ocean and how these processes interact with and provide/receive feedbacks to/from Earth’s environment (including also biological, chemical, atmospheric components)

Course Objectives: After you have completed this course, you should be able to:

- Describe the origin, shape and structure of the ocean basins
- Describe the physical characteristics of ocean water and the range and distribution of these characteristics
- Describe sediment distribution, and processes by which sediment motion occurs
- Describe the basics of surface and deep circulation in coastal regions and deep oceans
- Describe ocean chemistry, carbonate chemistry and why the ocean is a CO₂ sink
- Describe forces that produce motions in the ocean
- Describe the processes that operate in the coastal regions of the world
- Describe selected measurement techniques in geosciences

Grading Criteria:

<table>
<thead>
<tr>
<th>Mid-Term</th>
<th>(50% course material)</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Exam</td>
<td>(50% course material)</td>
<td>30%</td>
</tr>
</tbody>
</table>
Homework/Quizzes 25%
Research Paper-Oral and Written on Climate Change 15%

The mid-term and final exams will be short answer, multiple choice, matching and may include problems. They will be closed-book exams in class. Calculators may be necessary. The final exam will cover material since the mid-term.

**Grading Scale:** A+: 97-100, A: 93 up to 97, A-: 90 up to 93, B+: 87 up to 90, B: 83 up to 87, B-: 80 up to 83, C+: 77 up to 80, C: 73 up to 77, C-: 70 up to 73, D+: 67 up to 70, D: 63 up to 67, D-: 60 up to 63, F: 0 up to 60.

**Homework Assignments**
Late assignments: 10% credit deducted each day the assignment is late

**Quizzes**
In-class quizzes will be given with at least one class period notice.

**Research Paper**
A written paper (~ 10 pages, 1.5 spacing) and oral presentation is required describing your research on one or more aspects of climate change science. These will be presented during the last two weeks of class.
### Preliminary Schedule of Topics (subject to changes)

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction, History of Ocean Exploration</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Origins/Critical Concepts</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Earth Structure/Plate Tectonics</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Ocean Basins/Sediments</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Sediments</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Sediments/Forams/Coral Reefs</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Water and Ocean Structure</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>Water and Ocean Structure</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>Ocean Chemistry/Climate Change</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>Atmospheric Circulation</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>Ocean Circulation and ENSO</td>
<td>9</td>
</tr>
<tr>
<td>12</td>
<td>Gulf of Mexico Circulation/Waves</td>
<td>9</td>
</tr>
<tr>
<td>13</td>
<td>Waves/Tides</td>
<td>10, 11</td>
</tr>
<tr>
<td>14</td>
<td>Coasts</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>The Ocean and the Environment Papers Due (12/1)</td>
<td>18</td>
</tr>
<tr>
<td>16</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>
REQUEST FOR ADDITION OF NEW COURSE

PROPOSED COURSE DESCRIPTION

Rubric & No.  ENTM 7020  Title  Insect Physiology

Short Title (≤ 19 characters)  Insect Physiology

Semester Hours of Credit  4

If combination course type, # hrs. of credit for
  Lecture: 3  Lab/Sem/Rec: 1

Repeat Credit Max. (if repeatable): .credit hours  Graduate Credit?  Yes  No

Credit will not be given for this course and:

Course Type (Indicate hours in the appropriate course type.)

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Recitation</th>
<th>Lec/Rec</th>
<th>Lec/Sem</th>
<th>Lec/Lab</th>
<th>Res/Ind</th>
<th>Clin/Prac</th>
<th>Intern</th>
</tr>
</thead>
</table>

Maximum enrollment per section: (use integer, e.g. 25 not 20-30)  20

Grading System:  Letter Grade  X  Pass/Fail  Final Exam:**  Yes  X  No

** (Attach justification if the proposed course will not hold a final exam during examination week.)

Course Description:

(Concisely catalog statement exactly as you wish it to appear in the General Catalog)

Physiology and biochemistry of insect organ systems. Topics include circulation, digestion, respiration, excretion, hormonal regulation, pheromones, intermediary metabolism, and nerve and muscle physiology. Laboratories provide exposure to instrumentation and techniques used in physiological research.

BUDGET IMPACT (IF ANSWER TO ANY QUESTION IS "YES", ATTACH EXPLANATION.)

If this course is approved, will additional staff be needed?  Yes  No  X

Will additional space, equipment, special library materials or other major expense be involved?  Yes  No  X

Academic Affairs Approval:  (Date)

ATTACHMENTS (ATTACH THE FOLLOWING TO YOUR PROPOSAL)

JUSTIFICATION:  Justification must explain why this course is needed and how it fits into the curriculum. Will the course duplicate other courses?

SYLLABUS:  Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria

(For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students.)

APPROVALS

Department Faculty Approval Date  4/28/16  College Faculty Approval Date  4/28/16

College Dean Signature  (date)  Chair, FS C&C Committee  (date)  Academic Affairs Approval  (date)

Department Chair Signature  (date)  Graduate Dean Signature  (date)  College Contact  E-mail

William B. Richardson  4/29/16  Jennifer Neal  jsloan@snu.edu

John B. Hopko  7/11/16  7/26/16
Course Proposal
ENTM 7020 – Insect Physiology

Justification

The proposed course will provide a solid understanding on the theory and practice of insect physiology. An undergraduate course with the same title, but different course number, was offered every other year for many years in the Department of Entomology. However, it has been over 10 years since this undergraduate course has been taught, primarily because the Department lacked an Insect Physiologist to teach it. The hire of an Insect Physiologist last year provides the opportunity to once again teach this course to our students; a course in physiology is considered to be a mainstay in Entomology Departments around the country. The instructor proposes a new course that highlights the essential components of insect physiology and that will provide an essential knowledgebase for our graduate students pursuing careers in entomological disciplines. This course will not duplicate other courses. During the previous faculty retreat, the faculty voted to make the insect physiology course required for graduate students in the Department. Due to the broad scope and interdisciplinary nature of physiology, the target audience of this course not only includes graduate students in the Department of Entomology but also in the Department of Biological Sciences, Veterinary Medicine, and multiple other departments university wide. The fact that this course is now required for Entomology graduate students and its appeal to students in other disciplines means that it will likely meet enrollment requirements when taught every other year.

Insects are one of the most diverse groups of animals on the planet. Elaborate adaptations in their morphology, ecology, and physiology have allowed insects to flourish, and they are found (often in very high numbers) occupying almost every ecological niche. This is a graduate level course that will provide exposure to the physiological adaptations that facilitate insects to meet their basic needs. This course will focus on the broad concepts of insect physiology that range from the insect integument, molting, endocrinology, neuroanatomy, neurophysiology, digestion, and respiration. The laboratory section will introduce students to some common methods used in physiological research, modern day electrophysiological techniques, and to the critical reading of advanced scientific literature. In addition to these topics, the students will become acquainted with classical and modern literature in the field of insect physiology that will enable them to understand the field as a whole and apply the discipline to their research.

The four primary course objectives are to, 1) understand the functions and structures involved in selected physiological systems in insects, 2) learn basic principles of the mechanics of physiological systems so that you can learn insect physiology on your own when necessary, 3) become familiar with some basic techniques in physiology, biochemistry, and molecular biology so you can better understand their application 4) know how insect physiology applies to your sub-field in entomology and draw from this discipline to enhance your own work.
Insect Physiology – ENTM 7020
Lecture T TH 9:30-10:50
Lab three hours per week, TBD
Fall 2016

Instructor: Daniel Swale

Academic History:
B.S. Biology and Chemistry, Christopher Newport University
M.S. Entomology, Virginia Tech
Ph.D. Entomology/Insecticide Toxicology, University of Florida
Postdoc: Ion Channel Pharmacology/physiology, Vanderbilt University Medical Center
Currently: Assistant Professor of Entomology, LSU

Contact Information:
Office Phone: 225-578-1832
Email: dswale@agcenter.lsu.edu
Office Hours: Tues 8:00-9:00 AM (or by appointment)

Overview and Justification: Insects are one of the most diverse groups of animals on the planet. Elaborate adaptations in their morphology, ecology, and physiology have allowed insects to flourish, and they are found often in very high numbers occupying almost every ecological niche. This is a graduate level course that will provide exposure to the physiological adaptations that facilitate insects to meet their basic needs. The course will examine each organ system with emphasis on metabolism, neurophysiology, and behavioral processes. The laboratory section will introduce students to methods used in physiological research, modern day electrophysiological techniques, and critical reading of advanced scientific literature.

General Course Philosophy: To be successful academically in this course, you will need to be organized and diligent about studying. In order for this semester to be a “success,” this class must be a team effort. The instructor is here to facilitate your learning and you are here to be receptive to new information as well as enrich the overall experience of the class. We will all benefit by actively contributing to each other’s learning experience. I also want you to leave this course with a better appreciation of how biology intersects with your everyday life. I do not want this course to be a simple regurgitation of memorized information as I believe this method allows for minimal learning and serves little purpose.

Course Objectives:

- Understand the functions and structures involved in selected physiological systems in insects.
- Learn basic principles of the mechanics of physiological systems.
• Become familiar with basic techniques in physiology, biochemistry, and molecular biology in order to understand their application.

• Apply insect physiology to enhance your own work.

Expected knowledge: A course in biochemistry or molecular genetics is recommended but not required. If you lack these courses, you will be expected to do the independent reading to acquire the background needed for the course. In addition, you are expected to know the basic concepts of genetics, cell biology, and whole-organism physiology at the level of an introductory biology course. The instructor will provide supplementary readings if necessary.

Grading Criteria: Grades will be assigned on the basis of student performance on examinations given during the semester, paper summaries, participation, a research paper/presentation, and performance on laboratory projects.

Grade Determination:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Exams (100pts each)</td>
<td>300</td>
</tr>
<tr>
<td>1 Final Exam (cumulative)</td>
<td>150</td>
</tr>
<tr>
<td>Paper Summaries + discussion</td>
<td>100</td>
</tr>
<tr>
<td>Participation</td>
<td>50</td>
</tr>
<tr>
<td>Laboratory Assignments</td>
<td>100</td>
</tr>
<tr>
<td>Research Paper/Presentation*</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total Points</strong></td>
<td><strong>800</strong></td>
</tr>
</tbody>
</table>

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>89-87%</td>
<td>B</td>
<td>77-79%</td>
<td>C</td>
</tr>
<tr>
<td>A</td>
<td>92-96%</td>
<td>B+</td>
<td>73-76%</td>
<td>C+</td>
</tr>
<tr>
<td>A-</td>
<td>90-92%</td>
<td>B</td>
<td>70-72%</td>
<td>C-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>F</td>
</tr>
</tbody>
</table>

Paper discussions and summaries: Students will be assigned 4 papers from the literature to summarize and evaluate during the course. Each student will provide a 2-3 page written summary with evaluation of each paper prior to discussion. Asynchronous distance students will have access to recorded discussions and will provide their analyses of the papers using specialized forum threads within the E-learning system. A detailed rubric for paper summaries, evaluations, and discussions will follow.

Participation grade: The 50 points of the participation grade will be distributed across a series of discussion questions that will be introduced during lectures (live or recorded) and discussed in forums within the E-learning platform. Students will be expected to log into the E-learning platform and make substantial comments on the topics discussed in these forums to receive participation points. Rubrics for grading each discussion will be provided with the discussion question.

Exams: This course includes three exams and a comprehensive final. The first three exams are worth 100 points and the final is worth 150 points. Missed exams may be made up with the approval of an excused absence from the instructor. Excused absences can be arranged with the instructor ahead of time or with appropriate documentation after the fact (e.g., medical or police report).

Laboratory Grades: The lab scores will be based on written lab reports that will be formatted as a scientific manuscript that includes an introduction, methods, results, and discussion.
More information on the paper and presentation will be provided in class. The paper topic can be on any insect physiology topic you find interesting that is currently discussed in the popular press. Be sure to discuss the scientific merit of the topic and relate the paper to the objectives and topics of this course. The paper topic is due **October 11** and the final paper is due **November 29**. Grade sheets will be provided in class to highlight the areas of which you will be graded on. The research paper will count as a test grade (100 points).

**Suggested Textbooks:**


**Other References:**


**Reading Assignments:** In addition to the suggested text, instructor will provide supplementary reading material. When assigned, you will be expected to read these articles and make the effort necessary to understand the material.

**Examples of these types of readings are:**

- Yin, C-M., W-H Quin, and J.G. Stoffolano Jr. 1999. Regulation of mating behavior by nutrition and the corpus allatum in both male and female Phormia regina
General Statement on Academic Integrity:
The Commitment to Community charges students to maintain high standards of academic and personal integrity. All students are expected to read and be familiar with the LSU Code of Student Conduct and Commitment to Community, found online at www.lsu.edu/saa. It is your responsibility as a student at LSU to know and understand the academic standards for our community.

Students who are suspected of violating the Code of Conduct will be referred to the office of Student Advocacy & Accountability. For undergraduate students, a first academic violation could result in a zero grade on the assignment or failing the class and disciplinary probation until graduation. For a second academic violation, the result could be suspension from LSU.

Plagiarism and Citation Method:
As a student at LSU, it is your responsibility to refrain from plagiarizing the academic property of another and to utilize appropriate citation method for all coursework. In this class, it is recommended that you use the Entomological Society of America Style Guide for citing references (http://www.entsoc.org/pubs/publish/style/#References_Cited). Ignorance of the citation method is not an excuse for academic misconduct. Remember there is a difference between paraphrasing and quoting and how to properly cite each respectively.

One tool available to assist you in correct citations is the “References” function in Microsoft Word. This program automatically formats the information you input according to the citation method you select for the document. This program also has the ability to generate a reference or works cited page for your document. The version of Microsoft Word with the “References” function is available in most University computer labs. A demonstration of how to use this tool is available online at www.lsu.edu/saa.

Group work and unauthorized assistance:
All work must be completed without assistance unless explicit permission for group or partner work is given by the faculty member. This is critical so that the professor can assess your performance on each assignment. If a group/partner project is assigned, the student may still have individual work to complete. Read the syllabus and assignment directions carefully. You might have a project with group work and a follow up report that is independently written. When in doubt, e-mail the faulty member or ask during a class session. Seeking clarification is your responsibility as a student. Assuming group/partner work is okay without permission constitutes a violation of the LSU Code of Student Conduct.

Expectations: LSU’s general policy states that for each credit hour, you (the student) should plan to spend at least two hours working on course related activities outside of class. Since this course is for four credit hours, you should expect to spend a minimum of eight hours outside of class each week working on assignments for this course. For more information see: http://catalog.lsu.edu/content.php?catoid=12&navoid=822.

Accommodation of Disabilities: In compliance with section 504 of the Vocational Rehabilitation Act and Americans with Disabilities Act, Louisiana State University will provide reasonable accommodation of all medically documented disabilities. If you are seeking classroom accommodations under the Americans with Disabilities Act, you are required to register with Disability Services in 115 Johnston Hall. Their phone number is 225-578-5919 and website is www.lsu.edu/disability. To receive academic accommodations for this class, please obtain the proper Disability Services forms and meet with me at the beginning of the semester.

Academic Success: The primary ingredients of your academic success are attending class, managing your time efficiently, taking good notes, and developing good critical thinking and communication abilities. LSU has a number of excellent resources that will assist you in developing these skills. The place to begin is the Center for Academic Success (http://students.lsu.edu/academicsuccess). The CAS offers guidance on what learning strategies are best suited to your talents, tutoring in the basic subjects, and workshops on a variety of topics,
from note taking to time management. Communication Across the Curriculum (http://cxc.lsu.edu) assist students in developing the communication skills necessary for academic and professional success. Finally, with respect to professional success, the LSU Olinde Career Center (http://students.lsu.edu/careercenter) can assist you in choosing a major and a profession that best suits your talents and passions and help you develop a four year career plan to ensure success when you graduate from LSU.
Schedule:
*Instructor reserves the right to make minor changes to topics and examination dates. Adequate notice will be given if changes are made

**INSECT PHYSIOLOGY SCHEDULE**

**LECTURE SCHEDULE**

<table>
<thead>
<tr>
<th>Lecture#</th>
<th>Date</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3</td>
<td></td>
<td>Introduction, Integument</td>
</tr>
<tr>
<td>4-5</td>
<td></td>
<td>Reproduction</td>
</tr>
<tr>
<td>6-8</td>
<td></td>
<td>Excretion</td>
</tr>
<tr>
<td>9-11</td>
<td></td>
<td>Digestion</td>
</tr>
<tr>
<td>EXAM</td>
<td></td>
<td>Topics covered: Integument through digestion</td>
</tr>
<tr>
<td>12-15</td>
<td></td>
<td>Hemolymph and immune responses</td>
</tr>
<tr>
<td>16-18</td>
<td></td>
<td>Respiration</td>
</tr>
<tr>
<td>19-21</td>
<td></td>
<td>Metabolism</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>Review</td>
</tr>
<tr>
<td>EXAM</td>
<td></td>
<td>Topics covered: Hemolymph through metabolism and laboratory exercise materials</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>Neurons and ganglia</td>
</tr>
<tr>
<td>24-26</td>
<td></td>
<td>Nerve impulse, resting/action potentials</td>
</tr>
<tr>
<td>27-29</td>
<td></td>
<td>Synaptic transmission and neurotransmitters</td>
</tr>
<tr>
<td>30-31</td>
<td></td>
<td>Muscle physiology</td>
</tr>
<tr>
<td>Review session</td>
<td></td>
<td>lectures 23-31</td>
</tr>
<tr>
<td>EXAM</td>
<td></td>
<td>Topics: Lectures 23-31</td>
</tr>
<tr>
<td>32-33</td>
<td></td>
<td>Sensory physiology (mechanoreception/vision)</td>
</tr>
<tr>
<td>34-35</td>
<td></td>
<td>Sensory physiology (gustation &amp; olfaction)</td>
</tr>
<tr>
<td>36-37</td>
<td></td>
<td>The exocrine system</td>
</tr>
<tr>
<td>38-39</td>
<td></td>
<td>The endocrine system</td>
</tr>
<tr>
<td>FINAL EXAM</td>
<td></td>
<td>Topics: Lectures 10-17 + General Cumulative questions</td>
</tr>
<tr>
<td>Lab Period</td>
<td>Date</td>
<td>Topics</td>
</tr>
<tr>
<td>------------</td>
<td>------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Introduction/Neurocytology</td>
</tr>
<tr>
<td>2 &amp; 3</td>
<td></td>
<td>Insect Cuticle</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Endocrinology</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Insect Excretion</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Respiration</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Axonal conduction</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Synaptic transmission within the CNS</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Resting Potential-Muscle</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>Mechanoreceptors</td>
</tr>
</tbody>
</table>
REQUEST TO RENUMBER A COURSE OR CHANGE RUBRIC

Department: AEIE
College: Agriculture
Course Title: Advanced Research Design

CURRENT course rubric & no. HRE 7905
PROPOSED course rubric & no. AEE 7905

List all pages in the LSU General Catalog where the course appears: (attach extra sheets if necessary)
http://catalog.lsu.edu/search_advanced.php?cur_cat_oid=2&search_database=Search&search_db=Sea &epage=1&opage=1&spage=1&page=1&location=33&filter%5Bkeyword%5D=HRE+7905

NOTES:
* This form may only be used to change a course number and/or rubric.
* New course numbers cannot have been used for any other course during the previous 10 years.
* The first digit of a course number may not be changed. For example, a 4000-level course cannot be given a number at any level other than the 4000-level.
* This form CANNOT be used to make changes to course titles, descriptions, contact or credit hours, prerequisites, or any other substantive characteristics of a course.
* This form authorizes the replacement of the old course rubric and number with the new course rubric and number wherever the old rubric/number appears, including all:
  Course descriptions (prerequisites, co-requisites, cross-listings, etc.)
  Curricula, descriptions of curricula and degree audits.
  Concentrations, descriptions of concentrations and degree audits.
  Minors, descriptions of minors and degree audits.
  The General Education course list.

ATTACH JUSTIFICATION FOR REQUEST TO CHANGE COURSE NUMBER AND/OR RUBRIC

APPROVALS:
Department Faculty Approval Date 4/15/16
Department Chair’s Signature
Graduate Dean’s Signature (for 4000 level and above)
College/Division/ Department Contact:

College Dean’s Signature (Date)
Chair, FS C & C Committee

Please print name.

(Please print name.)
Rubric Change Justification HRE 7905 - AEEE 7905

As a result of course changes in the Human Resource and Leadership Development PhD program of study, the School of Human Resource Development is planning to remove several courses from their list of requirements. Given AEEE's interest in continuing to offer these courses to our students and given that our faculty currently teach these courses this change is warranted to reflect faculty instruction and student enrollment.
March 30, 2016

To: Michael F. Burnett, Associate Dean and Department Head

Re: Rubric Change

With the anticipated change in the Human Resource and Leadership Development PhD program of study, the School of Human Resource Development is planning to remove several courses from our list of requirements. Given your department’s interest in continuing to offer these courses to your students and given that your faculty currently teach these courses, I support the following rubric changes:

Change from HRE 7003 – Philosophy of Human Resource Education to AEEE 7003 – Philosophy of Agricultural and Extension Education
Change from HRE 7905 – Advanced Research Design to AEEE 7905 – Advanced Research Design
Change from HRE 7909 – Application, Interpretation and Reporting of Research Results to AEEE 7909 – Application, Interpretation and Reporting of Research Results

Sincerely,

Reid Bates
Interim Director
School of Human Resource Education & Workforce Development
HRE 7905 Advanced Research Design (3)

Prereq.: HRE 7901 or equivalent. Research design; emphasis on research concepts and procedures and their application to extension education.
REQUEST TO RENUMBER A COURSE OR CHANGE RUBRIC

Department: AEEE  
College: Agriculture  
Course Title: Application, Interpretation and Reporting of Research Results

CURRENT course rubric & no.  
HRE 7909  
PROPOSED course rubric & no.  
AEEE 7909

List all pages in the LSU General Catalog where the course appears: (attach extra sheets if necessary)
http://catalog.lsu.edu/preview_course_nopop.php?catoid=2&coid=16495

NOTES:
* This form may only be used to change a course number and/or rubric.
* New course numbers cannot have been used for any other course during the previous 10 years.
* The first digit of a course number may not be changed. For example, a 4000-level course cannot be given a number at any level other than the 4000-level.
* This form CANNOT be used to make changes to course titles, descriptions, contact or credit hours, prerequisites, or any other substantive characteristics of a course.
* This form authorizes the replacement of the old course rubric and number with the new course rubric and number wherever the old rubric/number appears, including all:
  Course descriptions (prerequisites, co-requisites, cross-listings, etc.)
  Curricula, descriptions of curricula and degree audits.
  Concentrations, descriptions of concentrations and degree audits.
  Minors, descriptions of minors and degree audits.
  The General Education course list.

ATTACH JUSTIFICATION FOR REQUEST TO CHANGE COURSE NUMBER AND/OR RUBRIC

APPROVALS:

Department Faculty Approval Date 4/15/14  
Department Chair's Signature  
Date: 4/15/14

Graduate Dean's Signature  
(Date)  

College Faculty Approval Date 4/29/14  
College Dean's Signature  
(Date)

College/Division/Department Contact:

Jennifer Neal jshealey@lsu.edu  

(Please print name.)
Rubric Change Justification HRE 7909 – AEEE 7909

As a result of course changes in the Human Resource and Leadership Development PhD program of study, the School of Human Resource Development is planning to remove several courses from their list of requirements. Given AEEE's interest in continuing to offer these courses to our students and given that our faculty currently teach these courses this change is warranted to reflect faculty instruction and student enrollment.
March 30, 2016

To: Michael F. Burnett, Associate Dean and Department Head

Re: Rubric Change

With the anticipated change in the Human Resource and Leadership Development PhD program of study, the School of Human Resource Development is planning to remove several courses from our list of requirements. Given your department's interest in continuing to offer these courses to your students and given that your faculty currently teach these courses, I support the following rubric changes:

Change from HRE 7003 – Philosophy of Human Resource Education to AEEE 7003 – Philosophy of Agricultural and Extension Education
Change from HRF 7905 – Advanced Research Design to AEEE 7905 – Advanced Research Design
Change from HRE 7909 – Application, Interpretation and Reporting of Research Results to AEEE 7909 – Application, Interpretation and Reporting of Research Results

Sincerely,

Reid Bates
Interim Director
School of Human Resource Education & Workforce Development
HRE 7909 Application, Interpretation and Reporting of Research Results (3)

Prereq.: HRE 7901, HRE 7903 or HRE 7905 or equivalent. Selection of appropriate statistical techniques and interpretation of results.