REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: Agricultural Economics & Agribusiness

Name of Concentration: Agribusiness Management

Name of Curriculum/Major: Agricultural Business

College: Agriculture

Type of Degree: BS

Date: 8/27/12

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

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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.

( ) 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 concentration on plain sheets and attach.

( X ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

<table>
<thead>
<tr>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRESENT</strong></td>
</tr>
<tr>
<td>Total semester hours in current concentration:</td>
</tr>
<tr>
<td>Agribusiness Management: Required Courses (12 hrs.)—AGEC 3303 and 3803; and six hours to be selected from MGT 3320, 3500, 4113, 4620.</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: 6/27/2012

Department Chair's Signature: [Signature] 8/27/12

College Faculty Approval Date: 9/19/12

Kenneth J. Koehn, Chair, FS C & C Committee: [Signature] 10/23/12

College Dean's Approval: T. Andrew Jett 10/23/12

Academic Affairs Approval: [Signature] 10/23/12

College Contact: Jennifer Neal: jshew [please fill in name.]

College Contact E-mail: jshew@ulsw.edu
Justification for dropping the Agribusiness Management concentration:

This concentration in Agribusiness Management is a modest extension of the Agricultural Business curriculum. It represents an attempt to better ‘market’ the degree, but is limited in a number of ways. First, the term ‘agribusiness’ is perceived to consist of a limited set of economic activities associated with the production, procurement, trading, and distribution of raw agricultural commodities, mostly by a select group of large firms that are first handlers and processors of agricultural commodities. Agribusiness has not become linked with the value-adding activities in the broader food and fiber system. This incorrect perception is a barrier to attracting students to the Agricultural Business major. Second, the concentration in Agribusiness Management contains no marketing courses as options. In the broader industry, marketing of foodservice and consumer products as brands, marketing of the banners (different companies operating under an umbrella company), and marketing behavior and activities of food manufacturers, comprise a large share of activity in the food industry. Third, students are not offered coursework in the Food Science department. For these reasons, we propose to drop this concentration to facilitate the creation of a broader concentration – Food Industry Management – that is submitted concurrently.
Faculty Senate Courses and Curricula Committee

From: Lawrence Rouse, Chair, Courses and Curricula Committee
To: Gail Cramer, Chair, Department of Agricultural Economics & Agribusiness

October 18, 2012

At their October 16th, 2012 meeting, the Faculty Senate Courses and Curriculum Committee took the following action regarding the AGEC proposals:

**AGRICULTURAL BUSINESS CURRICULUM and MINOR**
- The Committee approved the proposal to change the Agricultural Business curriculum and minor.

**AGRICULTURAL BUSINESS CONCENTRATION**
- Conditionally approved the proposal to drop the Agricultural Management concentration. The Committee requests documentation that states the department will accommodate for students still listed under the concentration. Students must be able to finish their chosen field.

**FOOD INDUSTRY MANAGEMENT CONCENTRATION**
- The Committee approved the proposal to add the Food Industry Management concentration.

**AGEC 3213**
- Conditionally approved the proposal to drop AGEC 3213: Agricultural Commodity and Food Products Marketing pending the submission and approval of proposals to drop the course from their program. The programs affected are the Agricultural Education curriculum, the Leadership and Communication concentration, and the Sustainable Productions concentration within the College of Agriculture.

**AGEC 3203**
- The Committee approved the proposal to add AGEC 3203.

**AGEC 4243 and 4213**
- Conditionally approved the proposal to add AGEC 4243: Food Products Marketing pending a revised syllabus including a 14 week schedule. The Committee also requests clarification on the prerequisites listed in the course description. Does the “grade of “C” or above” pertain to MKT 3401 as well? Does the term “or equivalent” correspond with the entire prerequisite field or to MKT 3401?
- Conditionally approved the proposal to drop AGEC 4213: Economics of Milk Marketing Systems pending the submission of the materials mentioned above for AGEC 4243.

AGEC 4433

- The Committee approved the proposal to change AGEC 4433.

Please submit the requested documentation to Anna Castrillo in the Office of the University Registrar at 112 Thomas Boyd Hall or by email at acastril@lsu.edu.

If you have any questions regarding the request, please feel free to contact me at trouse@lsu.edu.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPING AN UNDERGRADUATE CURRICULUM

Department: Communication Sciences & Disorders
College: Humanities & Social Sciences
Name of Curriculum/Major: Communication Disorders
Type of Degree: B.A.

Date: 10/1/12

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

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]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: Show the entire new curriculum by year (freshman, sophomore, etc.) using catalog format. Use plain sheets and attach.

(X) CHANGING: On a separate sheet of paper, include the current curriculum outline (all four years) which is to be changed in the left column and the proposed changes in the right column. In proposed column, use strikeout and bold to identify deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

PRESENT

Total semester hours in current curriculum: 120

PROPOSED

Total semester hours in proposed curriculum: 120

APPROVALS:

Department Faculty Approval Date: 10-5-12

Department Chair's Signature: [Signature]

(Date)

Chair, FSCC & C Committee: [Signature]

(Date)

College Faculty Approval Date: 10-24-12

College Dean's Signature: [Signature]

(Date)

Academic Affairs Approval: [Signature]

(Date)

College Contact: ____________________________

(Please print name.)

College Contact E-mail: ____________________________
When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum year for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 1st</td>
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<td>(1) 2nd</td>
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<td>(3) 4th</td>
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<td>ENGL 2000</td>
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<td></td>
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<td>(3) 4th</td>
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<td>Analytical Reasoning (6 hrs.)</td>
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<td>(X) 1st</td>
</tr>
<tr>
<td></td>
<td>(from mathematics department)</td>
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<td>(1) 2nd</td>
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<td>Humanities</td>
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<td>General Education humanities course</td>
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<td></td>
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<td>Natural Sciences</td>
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<td>(X) 1st</td>
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<td>(1) 2nd</td>
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<td></td>
<td>General Education natural science course</td>
<td>3</td>
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<tr>
<td>Social Sciences</td>
<td>General Education social science course</td>
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<td>(3) 4th</td>
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<td>General Education social science course (2000-level or above)</td>
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<td></td>
<td>(3) 4th</td>
</tr>
</tbody>
</table>
Effective in the Spring 2011 semester, several of the language options offered through the College of Humanities & Social Sciences were discontinued. Two of the languages that were discontinued, Japanese and Russian, were the only languages whose first two semesters worth of coursework totaled 10 hours instead of the eight hours seen in the other languages offered on our campus. In the Freshman Year of all of the degree programs that have a language option in the College of Humanities & Social Sciences, there is a range in the language component totaling 8-10 hours. This freshman year range needs to be changed to eight hours to reflect current course offerings. However, there is a range in the sophomore year language requirement that needs to remain intact as the third and fourth semester language courses in all areas remains the same. Specifically, the third and fourth semester courses are either three or four hours depending upon the language. To ensure that the degree totals remain at the needed 120 hours, a two hour range in another area of the degree program had to be added.
CURRENT

CURRICULUM IN COMMUNICATION DISORDERS

TOTAL SEM. HRS. • 120

Admission to a curriculum in the Department of Communication Sciences and Disorders requires that a student be admissible to the College of Humanities & Social Sciences and have a GPA of 2.50 or above on all work taken within the LSU System and on all work taken overall. Majors in Communication Disorders are required to take the following courses: BIOL 2160, EXST 2201, COMD 2050, 2081, 4150, 4153, 4190, 4250, 4380, 4381, 4382, and 4590. For any of the following courses used to satisfy this requirement, a grade of “C” or higher is required: COMD 4380, 4381, 4382, and 4590. Prospective students who have not attained a 2.50 average may petition the Department’s Committee of Undergraduate Advisors for a waiver of the 2.50 requirement based on special circumstances.

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements.

*If two course natural science sequence is taken in the physical sciences, the three-hour natural science course must be taken from the life sciences, and vice versa.

<table>
<thead>
<tr>
<th>SEM</th>
<th>HRS.</th>
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<tbody>
<tr>
<td>FRESHMAN YEAR</td>
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<tr>
<td>ENGL 1001 or 1004</td>
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<tr>
<td>Foreign language courses</td>
<td>8-10</td>
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<tr>
<td>General education analytical reasoning course (from mathematics dept)</td>
<td>3</td>
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<tr>
<td>General education humanities course</td>
<td>3</td>
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<tr>
<td>General education natural sciences course sequence</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>General education arts course</td>
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<td></td>
<td>29-31</td>
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<table>
<thead>
<tr>
<th>SEM</th>
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<tbody>
<tr>
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<tr>
<td>BIOL 2160</td>
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<tr>
<td>ENGL 2000</td>
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<tr>
<td>General education natural sciences course*</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
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</tbody>
</table>
EXST 2201
COMD 2050, 2081

33-31

SEM

JUNIOR YEAR
COMD4150, 4153, 4190, 4250, 4380, 4381, 4382
Approved electives

23
6
29

SEM

SENIOR YEAR
COMD 4590
Approved electives

3
26
29

HRS.
PROPOSED

CURRICULUM IN COMMUNICATION DISORDERS

TOTAL SEM. HRS. • 120

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Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements.

*If two course natural science sequence is taken in the physical sciences, the three-hour natural science course must be taken from the life sciences, and vice versa.

<table>
<thead>
<tr>
<th>SEM</th>
<th>HRS.</th>
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<tbody>
<tr>
<td>FRESHMAN YEAR</td>
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<tr>
<td>ENGL 1001 or 1004</td>
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<tr>
<td>Foreign language courses</td>
<td>8-10</td>
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<tr>
<td>General education analytical reasoning course (from mathematics dept)</td>
<td>3</td>
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<tr>
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<td>General education social sciences course</td>
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<td>General education arts course</td>
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<tr>
<td>Approved elective</td>
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<table>
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<tbody>
<tr>
<td>HRS.</td>
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<tr>
<td>29-31</td>
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<table>
<thead>
<tr>
<th>SEM</th>
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<tbody>
<tr>
<td>HRS.</td>
<td></td>
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<tr>
<td>3</td>
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</tbody>
</table>

| SOPHOMORE YEAR | |
| BIOL 2160 | 3 |
| ENGL 2000 | 3 |
| Foreign language courses | 8-6 |
| General education natural sciences course* | 3 |
General education humanities courses
EXST 2201
COMD 2050, 2081

33-31

SEM
HRS.

JUNIOR YEAR
COMD 4150, 4153, 4190, 4250, 4380, 4381, 4382
Approved electives

23
6
29

SEM
HRS.

SENIOR YEAR
COMD 4590
Approved electives

3
26
29
REQUEST FOR ADDING, CHANGING, OR DROPPING AN UNDERGRADUATE CURRICULUM
PLEASE SUBMIT 17 COPIES OF EACH REQUEST

Department: International Studies Program
College: Humanities and Social Sciences
Name of Curriculum/Major: International Studies
Type of Degree: BA
Date: 10/10/12

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

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.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: Show the entire new curriculum by year (freshman, sophomore, etc.) using catalog format. Use plain sheets and attach.
(X) CHANGING: Show present catalog description which is to be changed (left column) and the changes proposed (right column) on a separate sheet of paper. In proposed column, use strikeout and bold to identify deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: 10/9/12
Department Chair's Signature: 10/9/12 (Date)

College Faculty Approval Date: 10/24/12
College Dean's Signature: (Date)

Chair, FS C & C Committee: 10/30/12
Academic Affairs Approval: (Date)
Justification for Form D:
Effective in the Spring 2011 semester, several of the language options offered through the College of Humanities & Social Sciences were discontinued. Two of the languages that were discontinued, Japanese and Russian, were the only languages whose first two semesters worth of coursework totaled 10 hours instead of the eight hours seen in the other languages offered on our campus. In the Freshman Year of all of the degree programs that have a language option in the College of Humanities & Social Sciences, there is a range in the language component totaling 8-10 hours. This freshman year range needs to be changed to eight hours to reflect current course offerings. However, there is a range in the sophomore year language requirement that needs to remain intact as the third and fourth semester language courses in all areas remains the same. Specifically, the third and fourth semester courses are either three or four hours depending upon the language. To ensure that the degree totals remain at the needed 120 hours, a two hour range in another area of the degree program had to be added.

Justification for Form F:
Because Art 2401 has been removed from the catalog as inactive, it is being removed from the Middle East concentration in the International Studies minor.
CURRICULUM IN INTERNATIONAL STUDIES

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding approved electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements. *If sequence is taken in life sciences, the alternate science should be in the physical sciences category and vice versa.

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>ENGL 1001 ........................................... 3</td>
<td>ENGL 1001 ........................................... 3</td>
</tr>
<tr>
<td>Foreign language courses .................................. 8-10</td>
<td>Foreign language courses .................................. 8-10</td>
</tr>
<tr>
<td>INTL core courses (selected from among ANTH 1003 or 2031, ECON 2030 or 2031, GEOG 1001 or 1003, HIST 1007, and POLI 2053 or 2057) ........................................... 9</td>
<td>INTL core courses (selected from among ANTH 1003 or 2031, ECON 2030 or 2031, GEOG 1001 or 1003, HIST 1007, and POLI 2053 or 2057) ........................................... 9</td>
</tr>
<tr>
<td>General education analytical reasoning course (from mathematics department) ........................................... 3</td>
<td>General education analytical reasoning course (from mathematics department) ........................................... 3</td>
</tr>
<tr>
<td>General education life or physical science courses (two semesters lecture sequence)* ........................................... 6</td>
<td>General education life or physical science courses (two semesters lecture sequence)* ........................................... 6</td>
</tr>
<tr>
<td>29-31</td>
<td>29-34</td>
</tr>
</tbody>
</table>

| **SOPHOMORE YEAR** | **SOPHOMORE YEAR** |
| ENGL 2000 ........................................... 3 | ENGL 2000 ........................................... 3 |
| INTL core courses .................................. 6 | INTL core courses .................................. 6 |
| Foreign language courses (third and fourth semesters) ........................................... 8-6 | Foreign language courses (third and fourth semesters) ........................................... 8-6 |
| General education analytical reasoning course ........................................... 3 | General education analytical reasoning course ........................................... 3 |
| General education life or physical science course (one semester lecture in alternate science)* ........................................... 3 | General education life or physical science course (one semester lecture in alternate science)* ........................................... 3 |
| INTL 3001 ........................................... 3 | INTL 3001 ........................................... 3 |
| Approved elective ........................................... 3-5 | Approved elective ........................................... 3-5 |
| 32-30 | 32 |

| **JUNIOR YEAR** | **JUNIOR YEAR** |
| Foreign language courses (fifth and sixth semesters) or electives ........................................... 6 | Foreign language courses (fifth and sixth semesters) or electives ........................................... 6 |
| General education arts course ........................................... 3 | General education arts course ........................................... 3 |
| INTL area of concentration courses ........................................... 9 | INTL area of concentration courses ........................................... 9 |
| Approved electives ........................................... 12 | Approved electives ........................................... 12 |
| 30 | 30 |

| **SENIOR YEAR** | **SENIOR YEAR** |
| INTL area of concentration courses ........................................... 12 | INTL area of concentration courses ........................................... 12 |
| INTL 4003 ........................................... 3 | INTL 4003 ........................................... 3 |
| (Note: Required for all majors. Students must complete INTL 3001 and nine hours of additional upper level courses in their concentration before taking INTL 4003) | (Note: Required for all majors. Students must complete INTL 3001 and nine hours of additional upper level courses in their concentration before taking INTL 4003) |
| General education humanities course ........................................... 3 | General education humanities course ........................................... 3 |
| Approved electives ........................................... 29 | Approved electives ........................................... 29 |
## GENERAL EDUCATION REQUIREMENTS

### Please Submit 16 Copies of This Form

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum which satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum year for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt; (X) 2&lt;sup&gt;nd&lt;/sup&gt; (X) 3&lt;sup&gt;rd&lt;/sup&gt; (X) 4&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>Any from Gen. Ed. list</td>
<td></td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>Any from Gen. Ed. list</td>
<td></td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>Arts (3 hrs.)</td>
<td>General Education art course</td>
<td>3</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>Any from Gen. Ed. list</td>
<td></td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
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<td>HIST 1007</td>
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</tr>
<tr>
<td></td>
<td>Any from Gen Ed list</td>
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<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence</td>
<td>6</td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>Any from Gen. Ed. list</td>
<td></td>
<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td></td>
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<td></td>
<td>Any from Gen. Ed. list</td>
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<tr>
<td>Social Sciences (6 hrs.)</td>
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<td>(X) 1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>(At least three hours at or above the 2000-level.)</td>
<td>ANTH 1003 or 2051</td>
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<td>POLI 2057</td>
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REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: Political Science
College: Humanities & Social Sciences
Name of Curriculum/Major: Political Science
Type of Degree: B.A.

Date: 10/1/12

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

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.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: Show the entire new curriculum by year (freshman, sophomore, etc.) using catalog format. Use plain sheets and attach.
(X) CHANGING: On a separate sheet of paper, include the current curriculum outline (all four years) which is to be changed in the left column and the proposed changes in the right column. In proposed column, use strikeout and bold to identify deletions and additions. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
</tr>
</tbody>
</table>

APPROVALS:
Department Faculty Approval Date 10/10/12
Department Chair’s Signature [Signature]
(Date) 10/12/12
Chair, FS C & C Committee [Signature]
(Date) 6/30/12

College Faculty Approval Date 10/24/12
College Dean’s Signature [Signature]
(Date) 8/14/12
Academic Affairs Approval [Signature]
(Date) 7/4/12

College Contact: ______________________
(Please print name.)

College Contact E-mail: ______________________
Effective in the Spring 2011 semester, several of the language options offered through the College of Humanities & Social Sciences were discontinued. Two of the languages that were discontinued, Japanese and Russian, were the only languages whose first two semesters worth of coursework totaled 10 hours instead of the eight hours seen in the other languages offered on our campus. In the Freshman Year of all of the degree programs that have a language option in the College of Humanities & Social Sciences, there is a range in the language component totaling 8-10 hours. This freshman year range needs to be changed to eight hours to reflect current course offerings. However, there is a range in the sophomore year language requirement that needs to remain intact as the third and fourth semester language courses in all areas remains the same. Specifically, the third and fourth semester courses are either three or four hours depending upon the language. To ensure that the degree totals remain at the needed 120 hours, a two hour range in another area of the degree program had to be added.
# GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum year for all General Education courses.

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<th>Credit Hours</th>
<th>Curriculum Year</th>
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<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 2nd</td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td>(X) 3rd</td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td>(X) 4th</td>
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<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
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<td>(X) 3rd</td>
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<tr>
<td>Arts</td>
<td>General Education arts course</td>
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<td>(X) 4th</td>
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<td>General Education humanities course</td>
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<td>(X) 3rd</td>
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<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence</td>
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<td>(X) 1st</td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course</td>
<td>3</td>
<td>(X) 2nd</td>
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<tr>
<td></td>
<td>General Education natural science course</td>
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<td>(X) 3rd</td>
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<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course</td>
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<tr>
<td>(At least three hours at or above the 2000-level.)</td>
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*FO Li 2051*
## CURRENT

### FRESHMAN YEAR

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<td>Foreign language courses</td>
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<td>General education humanities course*</td>
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<td>General education analytical reasoning course (from mathematics dept.)</td>
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<td>POLI 1001 (recommended, but not required), 2051</td>
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<tr>
<td>General education natural sciences sequence**</td>
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### SOPHOMORE YEAR

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<td>ENGL 2000</td>
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<td>General education analytical reasoning course</td>
<td>3</td>
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<tr>
<td>General education humanities course*</td>
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</tr>
<tr>
<td>Approved political science courses</td>
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<tr>
<td>Approved electives or ROTC</td>
<td>6</td>
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<td>32-30</td>
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### JUNIOR YEAR

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<td>General education social sciences course</td>
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**SENIOR YEAR**

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PROPOSED

FRESHMAN YEAR

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<tr>
<td>General education analytical reasoning course (from mathematics department)</td>
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<td>POLI 1001 (recommended, but not required), 2051</td>
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SOPHOMORE YEAR

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<td>Approved electives or ROTC</td>
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JUNIOR YEAR

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<tr>
<td>Approved electives</td>
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<tr>
<td></td>
<td>29</td>
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</table>
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: School of Human Resource Education and Workforce Development
College: Agriculture
Name of Curriculum/Major: Agricultural Education
Type of Degree: B.S.

Date: 9/26/12

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.)
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: Show the entire new curriculum by year (freshman, sophomore, etc.) using catalog format. Use plain sheets and attach.
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<tr>
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</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 120</td>
<td>Total semester hours in proposed curriculum: 120</td>
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APPROVALS:
Department Faculty Approval Date: 9/26/2012
Signature: [Signature]
(Date): [Date]

College Faculty Approval Date: 10/18/12
Signature: [Signature]
(Date): [Date]

Department Chair's Signature: [Signature]
(Date): [Date]

College Dean's Signature: [Signature]
(Date): [Date]

Chair, FS C & C Committee: [Signature]
(Date): [Date]

Academic Affairs Approval: [Signature]
(Date): [Date]

College Contact: Jennifer Neal
(Please print name.)

College Contact E-mail: jenewt@lsu.edu
GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum year for all General Education courses.

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</tr>
</thead>
<tbody>
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<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 1st</td>
</tr>
<tr>
<td></td>
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<td>(X) 2nd</td>
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<td>(X) 4th</td>
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<td></td>
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<tr>
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<td>(X) 1st</td>
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<tr>
<td></td>
<td>(X) 4th</td>
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<tr>
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<tr>
<td></td>
<td>CMST 1061 or 2060</td>
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<tr>
<td></td>
<td>(X) 2nd</td>
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<tr>
<td></td>
<td>(X) 3rd</td>
<td></td>
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<td>(X) 4th</td>
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<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence</td>
<td>6</td>
<td>(X) 1st</td>
</tr>
<tr>
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<td>BIOL 1001/1002 OR 1201/1202</td>
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<td>CHEM 1001 OR 1201</td>
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<tr>
<td></td>
<td>(X) 3rd</td>
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<td>(X) 4th</td>
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<tr>
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<td>General Education social science course</td>
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<td>AGEC 2003</td>
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</table>

1 = Teaching and Learning Concentration
2 = Leadership and Communication Concentration
### CURRENT:

**FRESHMAN YEAR** | **SEM. HRS.**
--- | ---
ENGL 1001 | 3
General education humanities course: LA 1203 | 3
General education social science course: EDCI 1201 or MC 2001 | 3
General education social science course: [PSYC 2080 and 2078] or [HRE 2721 or 2724] or [HRE 3722 or 3724] | 6
HRE 3101 or AGEC 3213 | 3
Technical core courses | 12
**Total** | **30**

**SOPHOMORE YEAR** | **SEM. HRS.**
--- | ---
ENGL 2000 | 3
General education humanities course: LA 1203 | 3
General education social science course: EDCI 1201 or MC 2001 | 3
General education social science course: [PSYC 2080 and 2078] or [HRE 2721 or 2724] or [HRE 3722 or 3724] | 6
[AGEC 3213] or [HRE 3101] | 3
Technical core courses | 12
**Total** | **30**

### PROPOSED:

**FRESHMAN YEAR** | **SEM. HRS.**
--- | ---
ENGL 1001 | 3
General education humanities course: LA 1203 | 3
General education social science course: EDCI 1201 or MC 2001 | 3
General education social science course: [PSYC 2080 and 2078] or [HRE 2721 or 2724] or [HRE 3722 or 3724] | 6
[AGEC 3213] or [HRE 3101] | 3
Technical core courses | 12
**Total** | **30**

**SOPHOMORE YEAR** | **SEM. HRS.**
--- | ---
ENGL 2000 | 3
General education humanities course: LA 1203 | 3
General education social science course: EDCI 1201 or MC 2001 | 3
General education social science course: [PSYC 2080 and 2078] or [HRE 2721 or 2724] or [HRE 3722 or 3724] | 6
[AGEC 3213] or [HRE 3101] | 3
Technical core courses | 12
**Total** | **30**

**JUNIOR YEAR** | **SEM. HRS.**
--- | ---
General education social science course: AGEC 2001 | 3
General education humanities course: ENGL 2673 and CMST 1061 or 2060 | 6
[HRE 3201 and 3603 and 3604 and 3605 and 4201] or [HRE 3271 and 4011 and 4723 or 4724] | 9
EDCI 3131 or 2700 or [HRE 4026 and 4281] | 6
KIN 2601 | 1
Technical core courses | 12
**Total** | **30**

**SENIOR YEAR** | **SEM. HRS.**
--- | ---
[HRE 4200 and 4601] or [HRE 4603 and 4806] | 6
Technical core courses | 12
HRE 4806 or HRE 4804 | 2
**Total** | **30**
Justification:

Agricultural Business is proposing to drop 3213 and replace it with AGEC 3203.
Jennifer – It is acceptable to the Department of Agricultural Economics and Agribusiness that AGEC 3203 be included as an option in minors and concentrations in the College of Agriculture.

Roger Hinson
Undergraduate committee chair
Department of Agricultural Economics and Agribusiness

Jennifer Neal
LSU
Coordinator of Student Services
College of Agriculture
Louisiana State University
138 Martin D. Woodin Hall
Baton Rouge, LA 70803
225-578-2083
Fax: 225-578-2526

Jennifer, 

Please see below for some questions that Anna has about the proposals.

Anna M Castrillo
LSU
Director of Student Services
College of Agriculture
Louisiana State University
138 Martin D. Woodin Hall
Baton Rouge, LA 70803
225-578-2083
Fax: 225-578-2526

Jennifer, 

I found a few concerns and questions regarding the AGEC proposals:

1. Since 4213 is being dropped, we will need a proposal to change the Agricultural Business minor.
2. Have AGEC 3203 and 4243 been taught as special topics courses? If so, please provide me with the number enrolled in each semester.
3. Since 3213 is being dropped, I will need a proposal to change AGEC 4433, Agricultural Business Minor, the Agricultural Education Major, the Teaching & Learning concentration, and the Sustainable Production Systems concentration. I realize that the programs involved may want to wait until the new course proposals are approved (or conditionally approved) to send in the documents, but just giving you a head's up. The proposal to drop AGEC 3213 will only be able to be conditionally approved until all the other proposals are sent in.

Sincerely,
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: Mechanical And Industrial Engineering
College: Engineering
Name of Curriculum/Major: Mechanical Engineering
Type of Degree: B.S.M.E.
Date: 9/25/12

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

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.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: Show the entire new curriculum by year (freshman, sophomore, etc.) using catalog format. Use plain sheets and attach.

( x ) CHANGING: On a separate sheet of paper, include the current curriculum outline (all four years) which is to be changed in the left column and the proposed changes in the right column. In proposed column, use strikeout and bold to identify deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum: 127-128</td>
<td>Total semester hours in proposed curriculum: 127-128</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: 9/7/12
Department Chair's Signature: 9/28/12
Chair, FS C & C Committee: 10/30/12
College Faculty Approval Date: 10/10/12
College Dean's Signature: 11/14/12
Academic Affairs Approval: (Date)

College Contact: ____________________________
(Please print name.)

College Contact E-mail: ____________________________
JUSTIFICATION

This proposed change will eliminate the Tech B elective and replace it with a new course, ME 2543 Simulation Methods for Mechanical Engineers. The change will be neutral in terms of credit hours required for the BS degree, however some rearrangement of the courses will be required. ME 2543 will be inserted into the Sophomore year, ENGL 2000 will be moved to the Junior year, and one HUMN elective will be moved from the Junior year to the Senior year.

Mechanical Engineering third and fourth year courses require the use of computational tools to solve mechanical design and analysis problems. We previously had a course in semester two, CSC/ME 2533, but this course was focused on MATLAB instead of numerical methods and algorithms. Its prerequisite course was MATH 1550. The proposed course is intended to be taken at the same time as MATH 2090 so that it can cover numerical methods for solving linear algebra problems and ordinary differential equations. These methods are later required in third and fourth year courses ME 3603, 3143, 3834, 4133, 4433, 4183, 4243, and 4202.

As a consequence of removing the last Tech B elective, the ME curriculum will no longer give credit (Tech B) to ROTC students that will accept a commission upon graduation.
# GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum year for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td>(X) 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department) MATH 1550</td>
<td>3</td>
<td>(X) 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course MATH 1552</td>
<td>3</td>
<td>(X) 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
<td>3</td>
<td>(X) 2&lt;sup&gt;nd&lt;/sup&gt;, 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 2&lt;sup&gt;nd&lt;/sup&gt;, 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 2&lt;sup&gt;nd&lt;/sup&gt;, 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 2&lt;sup&gt;nd&lt;/sup&gt;, 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence CHEM 1201, 1202</td>
<td>6</td>
<td>(X) 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course Life Science Elective</td>
<td>3</td>
<td>(X) 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course</td>
<td>3</td>
<td>(X) 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>(At least three hours at or above the 2000-level.)</td>
<td>General Education social science course (2000-level or above) ECON 2030</td>
<td>3</td>
<td>(X) 3&lt;sup&gt;rd&lt;/sup&gt;, 4&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
</tbody>
</table>
**Current Catalog**

*Students are required to take one technical elective (Type B). Students who are planning to receive commission in the armed forces may substitute hours of Advanced ROTC credits in place of this technical elective (Type B).*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 1201, * 1202</td>
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<tr>
<td>Chemistry 1212 or Physics 2106</td>
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<tr>
<td>Construction Management 1020</td>
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<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>General education Life Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, * 1552</td>
<td>9</td>
</tr>
<tr>
<td>Physics 2101</td>
<td>3</td>
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<tr>
<td>General education arts, humanities, social sciences course*</td>
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<tr>
<td>ROTC</td>
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<td></td>
<td>30-34</td>
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<table>
<thead>
<tr>
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<tr>
<td>EE 2950</td>
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<tr>
<td>English 2000*</td>
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<tr>
<td>Mathematics 2057, 2090</td>
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<td>ME 2212, 2334, 2723, 3133, 3701</td>
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<tr>
<td>Physics 2102</td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
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<tr>
<td>ECON 2030*</td>
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<td>EE 3950</td>
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<tr>
<td>ME 3143, 3603, 3633, 3752, 3834, 4133, 4244, 4433, 4611</td>
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<tr>
<td>General education arts, humanities, social sciences course*</td>
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<thead>
<tr>
<th>SENIOR YEAR</th>
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**Proposed Catalog**

*Students are required to take one technical elective (Type B). Students who are planning to receive a commission in the armed forces may substitute 3 hours of Advanced ROTC credits in place of this technical elective (Type B).*

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<tbody>
<tr>
<td>Chemistry 1201, * 1202</td>
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<tr>
<td>Chemistry 1212 or Physics 2106</td>
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</tr>
<tr>
<td>Construction Management 1020</td>
<td>2</td>
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<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>General education Life Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, * 1552</td>
<td>9</td>
</tr>
<tr>
<td>Physics 2101</td>
<td>3</td>
</tr>
<tr>
<td>General education arts, humanities, social sciences courses*</td>
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</tr>
<tr>
<td>ROTC</td>
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<table>
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<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>CE 2450, 3400</td>
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<tr>
<td>EE 2950</td>
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</tr>
<tr>
<td>English 2000*</td>
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<tr>
<td>Mathematics 2057, 2090</td>
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<tr>
<td>Physics 2102</td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
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<tbody>
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<td>ECON 2030*</td>
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<td>EE 3950</td>
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<tr>
<td>ME 3143, 3603, 3633, 3752, 3834, 4133, 4244, 4433, 4611</td>
<td>26</td>
</tr>
<tr>
<td>General education arts, humanities, social sciences course*</td>
<td>3</td>
</tr>
<tr>
<td>English 2000*</td>
<td>3</td>
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<td>34</td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering 4183, 4201, 4202, 4243, 4621</td>
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<td>Approved Technical Electives (may include up to 3 hrs of Advanced ROTC as above)</td>
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<td>28</td>
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</tbody>
</table>
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: French Studies  College: Humanities & Social Sciences  Date: 11/7/11
Name of Concentration: French and Francophone Political Studies  Type of Degree: B.A.
Name of Curriculum/Major: French

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

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current concentration:</td>
<td>27 hrs</td>
</tr>
</tbody>
</table>

French and Francophone Political Studies

- **Required courses (27 hrs.):** Complete three courses from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4051, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete POLI 2053 and 2057; complete four courses selected from the following: POLI 4040, 4041, 4042, 4044, 4060, 4074, 4078. Upon approval of the department, other courses relevant to French and Francophone political studies may be accepted for this concentration.

French and Francophone Political Studies

- **Required courses (27 hrs.):** Complete FREN 3076 and two courses from the following: FREN 3090, 3260, 3280, 4000, 4001, 4005, 4014, 4015, 4031, 4041, 4050, 4051, 4060, 4070, 4080, 4100, 4915; complete POLI 2053 and 2057; complete four courses selected from the following: POLI 4040, 4041, 4042, 4044, 4060, 4074, 4075, 4076, 4078. Upon approval of the department, other courses relevant to French and Francophone political studies may be accepted for this concentration.

APPROVALS:

Department Faculty Approval Date: 9/7/12
Department Chair's Signature: (Date)
Chair, FS C & C Committee: (Date)

College Faculty Approval Date: 10/24/12
College Dean's Signature: (Date)
Academic Affairs Approval: (Date)
JUSTIFICATION:

FREN 3076, Introduction to Francophone Cultures, was added to the list of French Studies courses after the creation of the concentration in French and Francophone Political Studies. A course on global Francophone cultures would be essential in this program of study. Moreover, the addition of FREN 3260, POLI 4075, and 4076 would expand the offerings to students choosing this particular concentration. The faculty of French Studies voted unanimously to support this addition. The Department of Political Science also supports these additions. (See email).

FREN 4016, 4064, and 4065 have been cancelled due to ten year inactivity.
Jack Yeager

From: James Stoner [poston@lsu.edu]
Sent: Monday, June 04, 2012 9:52 PM
To: Rebecca E Caire
Cc: Jack Yeager
Subject: Re: POLI coursework in FREN major

Becky (and Jack),

Political Science has no objection to our courses being added to the concentrations you mention, and in fact we’re pleased by the interest and hope the students are by the courses.

Jim

------------------------------------------
James R. Stoner, Jr., Chair
Department of Political Science
240 Stubbs Hall
Louisiana State University
Baton Rouge, LA 70803-5433 USA
office: 225.578.2538
cell: 504.232.4399
poston@lsu.edu
http://www.lsu.edu/jamesstoner

On 6/1/12 11:18 AM, "Rebecca E Caire" <rcaire@lsu.edu> wrote:

Hi Dr. Stoner-

I am working with Dr. Yeager in French Studies on some of his course proposals/ concentrations and I am writing to you regarding Political Science coursework that they would like to officially add to their concentrations. Specifically, they would like to add:


Would you have any objections to these additions? Please let me know at your earliest opportunity.

Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: French Studies
College: Humanities & Social Sciences
Date: 11/7/11

Name of Concentration: International Business
Name of Curriculum/Major: French
Type of Degree: B.A.

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

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:
(X) CHANGING:
( ) SUSPENDING:
( ) DROPPING:

Provide an adequate explanation for suspending the concentration on plain sheets and attach.
Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Total semester hours in current concentration: 36-39 hrs.</td>
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**International Business**

**Required courses (36-39 hrs.):** Complete FREN 4051 and two courses selected from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4046, 4031, 4041, 4050, 4060, 4061-4063, 4070, 4080, 4100, 4915; complete ACCT 2001, 2101, ECON 2000 and 2010 or 2030 or 2031, FIN 3715, ISDS 1100, MKT 3401; complete two courses from the following: ECON 2035, 4040, FIN 3718, MGT 4420, MKT 4443; complete a business or professional internship in a Francophone context for 3 sem. Hrs. (ACCT 4231, ECON 4445, MGT 3280, MKT 4445, or other internships). Upon approval of the department, other courses relevant to international business may be accepted for this concentration.

**International Business**

**Required courses (36-39 hrs.):** Complete FREN 4051 and two courses selected from the following: FREN 3076, 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4030, 4031, 4041, 4050, 4060, 4070, 4080, 4100, 4915; complete ACCT 2001, 2101, ECON 2000 and 2010 or 2030 or 2031, FIN 3715, ISDS 1100, MKT 3401; complete two courses from the following: ECON 2035, 4040, FIN 3718, MGT 4420, MKT 4443; complete a business or professional internship in a Francophone context for 3 sem. Hrs. (ACCT 4231, ECON 4445, MGT 3280, MKT 4445, or other internships). Upon approval of the department, other courses relevant to international business may be accepted for this concentration.

APPROVALS:

Department Faculty Approval Date 9/12/12
Department Chair's Signature (Date) 10/6/12

College Faculty Approval Date 10/24/12
College Dean's Signature (Date) 11/4/12
| Chair, FS C & C Committee | (Date) | Academic Affairs Approval | (Date) |
JUSTIFICATION:

FREN 3076, Introduction to Francophone Cultures, was added to the list of French Studies courses after the creation of the concentration in French and Francophone Political Studies. A course on global Francophone cultures would be essential in this program of study. The faculty of French Studies voted unanimously to support this addition.

FREN 4016, 4064, 4065 have been cancelled due to ten year inactivity.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: French Studies  
College: Humanities & Social Sciences  
Date: 11/7/11  
Type of Degree: B.A.

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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.
- ( ) 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 concentration on plain sheets and attach.
- ( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

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<td><em>Required courses (24 hrs.):</em> Complete three course selected from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4051, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete ANTH 1001, INTL 2000; complete three courses selected from the following: ANTH 4051, 4053, 4004, 4470; ARTH 4450 or 4451, 4055, POLI 4074, 4078, HIST 4015, 4022, 4025, 4111, 4112, 4113, 4130. Upon approval of the department, other courses relevant to international studies may be accepted for this concentration.</td>
<td><em>Required courses (24 hrs.):</em> Complete FREN 3076 and two courses from the following FREN 3090, 3260, 3280, 4000, 4001, 4005, 4014, 4015, 4031, 4041, 4050, 4051, 4060, 4064, 4070, 4080, 4100, 4915; complete ANTH 1001 or 1003, INTL 2000; complete three courses selected from the following: ANTH 4051, 4053, 4064, 4470, ARTH 4450 or 4451, POLI 4074, 4075, 4076, 4078, HIST 4022, 4073, 4081, 4084, 4085, 4112, 4113, 4130 Upon approval of the department, other courses relevant to international studies may be accepted for this concentration.</td>
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APPROVALS:

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<tr>
<th>Chair, FS C &amp; C Committee</th>
<th>Academic Affairs Approval</th>
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<tbody>
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<td>10/14/12</td>
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</tbody>
</table>
JUSTIFICATION:

FREN 3076, Introduction to Francophone Cultures, was added to the list of French Studies courses after the creation of the concentration in French and Francophone Political Studies. A course on global Francophone cultures would be essential in this program of study. In addition, replacing ANTH 1001 with 1003, Introduction to Cultural and Social Anthropology, aligns more fully with the spirit of this concentration in its focus on the diversity of human cultures. Moreover, the addition of FREN 3260, HIST 4073, 4081, 4084, and 4085 and POLI 4075, and 4076 would expand the offerings to students choosing this particular concentration. The faculty of French Studies voted unanimously to support this addition. The Departments of Geography and Anthropology, History and Political Science also support these additions. (See email).

FREN 4016, 4064, 4065, ANTH 4064, GEOG 4055, HIST 4015 and 4021 have been cancelled due to ten year inactivity.
Jack Yeager

From: Rebecca E Caire [mailto:rcaire@lsu.edu]
Sent: Friday, June 01, 2012 1:18 PM
To: Jack Yeager
Subject: FW: History coursework

Jack-

Please see below for the History approval.

Thanks,
Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu

From: Victor L Stater [mailto:stater@lsu.edu]
Sent: Friday, June 01, 2012 1:16 PM
To: Rebecca E Caire
Subject: RE: History coursework

Hi Becky,

We would have no objection to the inclusion of those courses. I would add, though, that HIST 4200 hasn’t been taught in some time, though it might be offered again once our new Af-Am historian arrives.

Thanks,
Victor

From: Rebecca E Caire [mailto:rcaire@lsu.edu]
Sent: Friday, June 01, 2012 11:20 AM
To: Victor L Stater
Cc: Jack Yeager
Subject: History coursework

Hi Dr. Stater-

I am working with Dr. Yeager in French Studies on some of his course proposals/concentrations and I am writing to you regarding History coursework that they would like to officially add to their concentrations. Specifically, they would like to add:

Would you have any objections to these additions? Please let me know at your earliest opportunity.

Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu
Becky (and Jack),

Political Science has no objection to our courses being added to the concentrations you mention, and in fact we’re pleased by the interest and hope the students are by the courses.

Jim

James R. Stoner, Jr., Chair
Department of Political Science
240 Stubbs Hall
Louisiana State University
Baton Rouge, LA 70803-5433 USA
Office: 225.578.2538
Cell: 504.232.4399
poston@lsu.edu
http://www.lsu.edu/jamesstoner

On 5/1/12 11:18 AM, "Rebecca E Caire" <rcaire@lsu.edu> wrote:

Hi Dr. Stoner-

I am working with Dr. Yeager in French Studies on some of his course proposals/ concentrations and I am writing to you regarding Political Science coursework that they would like to officially add to their concentrations. Specifically, they would like to add:


Would you have any objections to these additions? Please let me know at your earliest opportunity.

Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
October 19, 2012

I Support adding ANTH 1003 and deleting ANTH 1001 to the French Concentration in International Studies.

Kevin Robbins, Chair, Geography and Anthropology
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department French Studies College Humanities & Social Sciences Date 11/7/11
Name of Concentration Literary Studies Type of Degree B.A.
Name of Curriculum/Major French

Has this change been discussed with and approved by all departments/colleges affected? Yes ☑ 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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.
(X) CHANGING: List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column, use strikethrough and bold to indicate deletions and additions. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

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**Literary Studies**

*Required courses (18 hrs.):* Complete three courses selected from the following: FREN 3090, 4000, 4005, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4090, 4095, 4100, 4915; complete three courses selected from the following: ANTH 4051, 4053, 4054, 4470, ARTH 4450 or 4451, 4452, HIST 4055, 4056, 4022, 4112, 4113, 4130, POLI 4074, 4078. Upon approval of the department, other courses relevant to literary studies may be accepted for this concentration.

**Literary Studies**

*Required courses (18 hrs.):* Complete three courses from the following: FREN 3076; 3090, 3280, 3295, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4090, 4100, 4915; complete three courses selected from the following: ANTH 4051, 4053, 4470, ARTH 4450 or 4451, HIST 4022, 4073, 4081, 4084, 4085, 4112, 4113, 4130, POLI 4074, 4075, 4076, 4078. Upon approval of the department, other courses relevant to literary studies may be accepted for this concentration.

APPROVALS:

Department Faculty Approval Date 9/7/12
Department Chair’s Signature

College Faculty Approval Date 10/24/12
College Dean’s Signature

Chair, FSC & C Committee 10/30/12
Academic Affairs Approval 1/4/12
JUSTIFICATION:

FREN 3076, introduction to Francophone Cultures, was added to the list of French Studies courses after the creation of the concentration in French and Francophone Political Studies. A course on global Francophone cultures as well as FREN 3295: Special Topics in Louisiana French would be essential in this program of study. Moreover, the addition of HIST 4073, 4081, 4084, and 4085 and POLI 4075, and 4076 would expand the offerings to students choosing this particular concentration. The faculty of French Studies voted unanimously to support this addition. The Departments of History and Political Science also support these additions. (See email).

FREN 4004, 4095, ANTH 4064, GEOG 4055, HIST 4015 and 4021 have been cancelled due to ten year inactivity.
Becky (and Jack),

Political Science has no objection to our courses being added to the concentrations you mention, and in fact we’re pleased by the interest and hope the students are by the courses.

Jim

-------------------------------------------------------------------
James R. Stoner, Jr., Chair
Department of Political Science
240 Stubbs Hall
Louisiana State University
Baton Rouge, LA 70803-5433 USA
office: 225.578.2538
cell: 504.232.4399
poston@lsu.edu
http://www.lsu.edu/jamesstoner

On 6/1/12 11:18 AM, "Rebecca E Caire" <rcaire@lsu.edu> wrote:

Hi Dr. Stoner-

I am working with Dr. Yeager in French Studies on some of his course proposals/ concentrations and I am writing to you regarding Political Science coursework that they would like to officially add to their concentrations. Specifically, they would like to add:


Would you have any objections to these additions? Please let me know at your earliest opportunity.

Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Jack Yeager

From: Rebecca E Caire [rcaire@lsu.edu]  
Sent: Friday, June 01, 2012 1:18 PM  
To: Jack Yeager  
Subject: FW: History coursework

Jack-

Please see below for the History approval.

Thanks,
Becky

Rebecca Caire, Assistant Dean  
College of Humanities & Social Sciences  
Louisiana State University  
119 Hodges Hall  
Baton Rouge, LA 70803  
Phone: (225) 578-3141  
Fax: (225) 578-6447  
rcaire@lsu.edu

From: Victor L Stater [mailto:stater@lsu.edu]  
Sent: Friday, June 01, 2012 1:16 PM  
To: Rebecca E Caire  
Subject: RE: History coursework

Hi Becky,

We would have no objection to the inclusion of those courses. I would add, though, that HIST 4200 hasn't been taught in some time, though it might be offered again once our new Af-Am historian arrives.

Thanks,

Victor

From: Rebecca E Caire [mailto:rcaire@lsu.edu]  
Sent: Friday, June 01, 2012 11:20 AM  
To: Victor L Stater  
Cc: Jack Yeager  
Subject: History coursework

Hi Dr. Stater-

I am working with Dr. Yeager in French Studies on some of his course proposals/concentrations and I am writing to you regarding History coursework that they would like to officially add to their concentrations. Specifically, they would like to add:

Would you have any objections to these additions? Please let me know at your earliest opportunity.

Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: French Studies
College: Humanities & Social Sciences
Type of Degree: B.A.

Name of Concentration: Secondary Education
Name of Curriculum/Major: French

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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.

(X) CHANGING: List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column, use underline and bold to indicate deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

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Secondary Education

Required courses (33 hrs.): FREN 3401, 3402, 4405, 4404, 4014, 4016; EDCI 2001, 3001, 3136, 4003, 4004, 4005.

Secondary Education

Required courses (33 hrs.): FREN 3401, 3402, 4403, 4404, 4014, 4015, 4016; EDCI 2001, 3001, 3136, 4003, 4004, 4005. Upon approval of the department, other courses relevant to Secondary Education studies may be accepted for this concentration.

APPROVALS:

Department Faculty Approval Date: 9/07/12
Department Chair's Signature: [Signature] (Date: 10/04/12)

College Faculty Approval Date: 10/24/12
College Dean's Signature: [Signature] (Date: 11/14/12)

Chair, FSC & C Committee Approval Date: 10/28/12
Academic Affairs Approval Date: [Signature] 7/8/14
French 4016 has not been taught for a number of years and thus has been eliminated from the course list in French Studies. We have been using 4015 as a substitute for this course in the concentration in Secondary Education. The French faculty and the College of Education support adding 4015 as a requirement for the concentration, replacing 4016.
Becky and Jack,
I have solicited input from all faculty who work with the Geaux Teach/French program. After reviewing certification, accreditation, and accountability needs, they have determined that this change would be appropriate. Thus the College of Education approves dropping FREN 4016 and adding FREN 4015 as a requirement in the secondary education concentration.

Let me know if you need additional information.

P. Exner

---------------------------------------------

Patricia D. Exner, Ph.D.
Associate Dean
College of Education
Louisiana State University and A&M College
221 Peabody Hall - Baton Rouge, LA 70803
Telephone: 225-578-2043 - Fax: 225-578-2267
pexner@lsu.edu
www.lsu.edu/coe

---------------------------------------------

From: Rebecca E Caire [mailto:rcaire@lsu.edu]
Sent: Friday, June 01, 2012 11:27 AM
To: Patricia D Exner
Cc: Jack Yeager
Subject: French- Secondary Education concentration

Hi Patti-

I am working with Dr. Yeager in French Studies on some of his course proposals/concentrations and I am writing to you regarding a change to the Secondary Education concentration in the Department of French Studies. Specifically, they would like to add FREN 4015 to their list of required courses in lieu of FREN 4016. FREN 4016 hasn’t been taught in a number of years and is in the process of being dropped by the Office of the University Registrar. The French faculty have been regularly substituting FREN 4015 for 4016.

Would you have any objections to this change? Please let me know at your earliest opportunity.
Thanks very much,

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: African & African American Studies
College: Humanities & Social Sciences
Name of Concentration: African & African American Studies
Name of Curriculum/Major: Liberal Arts
Type of Degree: 10/1/12
Date: 10/1/12

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

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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.
(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 concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

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APPROVALS:

Department Faculty Approval Date 9/30/12
Department Chair's Signature

College Faculty Approval Date 10/24/12
College Dean's Signature

Chair, FS C & C Committee 1/30/12
Academic Affairs Approval 1/30/12

College Contact: ____________________________

(Please print name.)

College Contact E-mail: ____________________________
African and African American Studies

**PRESENT**

*If a two-course sequence is taken in the physical sciences, then the three-hour course must be from the life sciences and vice versa.*

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<tr>
<td>General education analytical reasoning course (from mathematics department)</td>
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<td>General education natural sciences course sequence*</td>
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**PROPOSED 2013-2014**

*If a two-course sequence is taken in the physical sciences, then the three-hour course must be from the life sciences and vice versa.*

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<td>General education natural sciences course</td>
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<tr>
<td>General education humanities course</td>
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<td></td>
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<tr>
<td>AAAS 3024 or 3044</td>
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<td>Area of concentration courses**</td>
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<tr>
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<td>General education humanities courses</td>
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<td>General education social sciences course</td>
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<td>Approved electives</td>
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**In addition to the 9 hours of core required courses (AAAS 2000, 3024/3044 (CxC), 4020), students must complete 24 hours from at least two divisions and three different departments. A minimum of 6 hours must focus on a geographical region outside the U.S. (non-US). Three hours must be either Service-Learning (S-L) or Communication Across the Curriculum (CxC). Only 12 hours from courses numbered below the 3000 level may count toward the degree.

**Divisions (24 hrs.):**

**Division I – History and Culture:** AAAS 2410, 3024, 3120 (non-U.S.), 3122 (non-US), 3901, 3902; ANTH 4050, 4051 (non-US), 4053, 4470; HIST 2061, 4055, 4067, 4068, 4072, 4081 (non-US), 4200;

**Division II – Politics and Society:** AAAS 2050 (non-US), 2511, 3024, 3425, 3901, 3902; POLI 4038, 4039, 4078 (non-US); SOCL 2721, 4511; WGS 2900;

**Division III – Literature, Language, and the Arts:** AAAS 2410, 3044 (CxC), 3341, 3901, 3902, 4322 (non-US), 4323 (non-US); ENGL 2674, 3674, 4173, 4220, 4674; FREN 4064, 4070 (non-US); LING 4716; MUS 2000.

**In addition to the 9 hours of core required courses (AAAS 2000, 3024/3044 (CxC), 4020), students must complete 24 hours from at least two divisions and three different departments. A minimum of 6 hours must focus on a geographical region outside the U.S. (non-US). Three hours must be either Service-Learning (S-L) or Communication Across the Curriculum (CxC). Only 12 hours from courses numbered below the 3000 level may count toward the degree.

**Divisions (24 hrs.):**

**Division I – History and Culture:** AAAS 2410, 3024, 3120 (non-U.S.), 3122 (non-US), 3901, 3902; ANTH 4050, 4051 (non-US), 4053, 4470; HIST 2061, 4055, 4067, 4068, 4072, 4081 (non-US), 4200;

**Division II – Politics and Society:** AAAS 2050 (non-US), 2511, 3024, 3425, 3901, 3902; POLI 4038, 4039, 4078 (non-US); SOCL 2721, 4511; WGS 2900;

**Division III – Literature, Language, and the Arts:** AAAS 2410, 3044 (CxC), 3341, 3901, 3902, 4322 (non-US), 4323 (non-US); ENGL 2674, 3674, 4173, 4220, 4674; FREN 4064, 4070 (non-US); LING 4716; MUS 2000.
Effective in the Spring 2011 semester, several of the language options offered through the College of Humanities & Social Sciences were discontinued. Two of the languages that were discontinued, Japanese and Russian, were the only languages whose first two semesters worth of coursework totaled 10 hours instead of the eight hours seen in the other languages offered on our campus. In the Freshman Year of all of the degree programs that have a language option in the College of Humanities & Social Sciences, there is a range in the language component totaling 8-10 hours. This freshman year range needs to be changed to eight hours to reflect current course offerings. However, there is a range in the sophomore year language requirement that needs to remain intact as the third and fourth semester language courses in all areas remains the same. Specifically, the third and fourth semester courses are either three or four hours depending upon the language. To ensure that the degree totals remain at the needed 120 hours, a two hour range in another area of the degree program had to be added.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

School of Human Resource Education
Department and Workforce Development College Agriculture Date 9/26/12

Name of Concentration Leadership and Communication
Name of Curriculum/Major Agricultural Education Type of Degree B.S.

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:
List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary

( ) CHANGING:
List present catalog description which is to be changed (left column) and the changes proposed (right column). In proposed column, use strikethrough and bold to indicate deletions and additions. Explain all changes adequately on attachment.

( ) SUSPENDING:
Provide an adequate explanation for suspending the concentration on plain sheets and attach.

( ) DROPPING:
Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
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<td>MC 2000; AGEC 3213; HRE 2723 or 2724, 3271, 3723 or 3724, 4011, 4026, 4281, 4603, 4723 or 4724, 4869, 4804.</td>
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<td>Total semester hours in proposed concentration:</td>
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<tr>
<td>MC 2000; AGEC 3243 AGEC 3203; HRE 2723 or 2724, 3271, 3723 or 3724, 4011, 4026, 4281, 4603, 4723 or 4724, 4869, 4804.</td>
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<td></td>
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</table>

APPROVALS:

Department Faculty Approval Date 9/26/2012

Kenneth P. Koones, 10/18/12

College Faculty Approval Date 10/18/12

[Signature] 10/10/12

Department Chair’s Signature (Date)

Jennifer Neal

Chair, FS C & C Committee (Date)

College Contact: Jennifer Neal

College Contact E-mail: jsheu@ncsu.edu

College Dean’s Signature (Date)

Academic Affairs Approval (Date)
Justification:

Agricultural Business is proposing to drop 3213 and replace it with AGEC 3203.
Jennifer Neal

From: Hinson, Roger A. <RHinson@agcenter.lsu.edu>
Sent: Thursday, October 18, 2012 1:59 PM
To: Jennifer Neal
Subject: Inclusion of AGEC 3213 as option in other curricula

Jennifer – It is acceptable to the Department of Agricultural Economics and Agribusiness that AGEC 3203 be included as an option in minors and concentrations in the College of Agriculture.

Roger Hinson
Undergraduate committee chair
Department of Agricultural Economics and Agribusiness

From: Jennifer Neal [mailto:jsherw1@lsu.edu]
Sent: Wednesday, September 26, 2012 3:01 PM
To: Hinson, Roger A.
Subject: FW: AGEC proposals

Dr. Hinson,

Please see below for some questions that Anna has about the proposals.

Jennifer Neal

LSU
Coordinator of Student Services
College of Agriculture
Louisiana State University
138 Martin D. Woodin Hall
Baton Rouge, LA 70803
225-578-2083
Fax: 225-578-2526

From: Anna M Castrillo
Sent: Wednesday, September 26, 2012 2:47 PM
To: Jennifer Neal
Subject: AGEC proposals

Jennifer,

I found a few concerns and questions regarding the AGEC proposals:

1. Since 4213 is being dropped, we will need a proposal to change the Agricultural Business minor.
2. Have AGEC 3203 and 4243 been taught as special topics courses? If so, please provide me with the number enrolled in each semester.
3. Sincere 3213 is being dropped, I will need a proposal to change AGEC 4433, Agricultural Business Minor, the Agricultural Education Major, the Teaching & Learning concentration, and the Sustainable Production Systems concentration. I realize that the programs involved may want to wait until the new course proposals are approved (or conditionally approved) to send in the documents, but just giving you a head’s up. The proposal to drop AGEC 3213 will only be able to be conditionally approved until all the other proposals are sent in.

Sincerely,
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: Sch. of Plant, Env., and Soil Sci  College: Agriculture  Date: 10/3/12

Name of Concentration: Sustainable Production Systems
Name of Curriculum/Major: Plant and Soil Systems  Type of Degree: B.S.

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

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: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.
( 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 concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

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<tr>
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<tr>
<td>Total semester hours in current concentration:</td>
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<tr>
<td>Sustainable Production Systems (33 hrs.)</td>
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</tr>
<tr>
<td>AGRO 1001, 3040, 4070; AGRO 4078; AGEC 3243 or 3303 or 3413 or 4443; ENTM 2001; ENTM 4006 or 4012; PLHL 4001; HORT 2050, 2061, 2070 and 3503</td>
<td>AGRO 1001, 3040, 4070; AGRO 4078; AGEC 3303 or 3413 or 4443; ENTM 2001; ENTM 4005 or 4012; PLHL 4001; HORT 2050, 2061, 2070 and 3503</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date

Department Chair's Signature Date

College Faculty Approval Date

College Dean's Signature Date

Chair, FS C & C Committee

Academic Affairs Approval Date

College Contact: Jennifer Neal (Please print name)

College Contact E-mail: jsherw1@ksu.edu
Rationale

Agricultural Economics is dropping AGEC 3213

Note: Plant and Soil Systems has three units offering areas of concentration: Department of Plant Pathology & Crop Physiology, Department of Entomology, and the School of Plant, Environmental, and Soil Sciences.
REQUEST FOR ADDING, CHANGING, SUSPENDING 
OR DROPING 
UNDERGRADUATE MINOR

Department  Chinese Culture & Commerce  College  Humanities & Social Sciences  Date  10/3/2012
Name of Minor  Chinese Culture and Commerce

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).
See attached memo from Ashley Junek, the Assistant Dean in the College of Business

ACTION (check appropriate box):
( ) ADDING: Show the entire new minor using catalog format. Use plain sheets and attach.
( ) 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>
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<tbody>
<tr>
<td>Total semester hours in current minor: 18</td>
<td>Total semester hours in proposed minor: 18</td>
</tr>
</tbody>
</table>
| To graduate with a minor in Chinese Culture and Commerce, students must complete 18 hours, six hours from three groups listed below, at least six hours from 3000 or 4000 level.  
Group I (Arts: Language and Literature, Film, and Popular Culture, Art): CHIN 1101, 1102, 2001, 2002, 3101, 3102, 3801, 4915, ARTH 2411, 4441;  
Group II (Commerce and Social Sciences: Geography and Anthropology, Political Science, Business): POLI 4067, 4079, JSIS 4160, GEOG 4037, MGT 3111 (when topic is China), MGT 4420 (when topic is China), BADM 4040, ECON 4530  
Group III (History, Religion, Special Topics): HIST 2096, 4091, 4092, REL 2027, 4191, CHIN 2070 | To graduate with a minor in Chinese Culture and Commerce, students must complete 18 hours, six hours from three groups listed below, at least six hours from 3000 or 4000 level.  
Group I (Arts: Language and Literature, Film, and Popular Culture, Art): CHIN 1101, 1102, 2001, 2002, 3101, 3102, 3801, 4915, ARTH 2411, 4441;  
Group II (Commerce and Social Sciences: Geography and Anthropology, Political Science, Business): POLI 4067, 4079, JSIS 4160, GEOG 4037, MGT 3111 (when topic is China), MGT 4420 (when topic is China), BADM 4040, GBUS 4040, ECON 4530  
Group III (History, Religion, Special Topics): HIST 2096, 4091, 4092, REL 2027, 4191, CHIN 2070 |

APPROVALS:
Department Faculty Approval Date 10/3/2012  
Department Chair's Signature  
Chair, FS C & C Committee  
College Faculty Approval Date 10-24-12  
College Dean's Signature  
Academic Affairs Approval (Date)
Justification for changing BADM 4040 to GBUS 4040

As clarified in the memo from Ashley Junek, the Assistant Dean in the College of Business, GBUS 4040 is the same course as BADM 4040. The College of Business has "separated the MBA courses from the undergrad courses by creating the new GBUS rubric" (email from Ashley Junek dated 10-2-2012).
Dear Fahui,

FYI- Ashley Junek is the Assistant Dean in the College of Business and explained a bit about the rubric change.

Hope this helps!

Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu

Hi Becky,

I didn't realize the course was being used in your minor. Since it's the same course, it should be an automatic approval. We separated the MBA courses from the undergrad courses by creating the new GBUS rubric. Well, actually 4040 is the only one offered. Let me know if you need something official from us and I'll be happy to send a memo.

Ashley

If we wanted to add GBUS 4040 to one of our minors, who would we email for permission? Our Chinese Culture and Commerce minor still has the BADM 4040 course in it. We want to drop the BAUM 4040 and possibly replace it with GBUS 4040.

Thanks,
Becky
October 3, 2012

To: College of Humanities & Social Sciences

From: Ashley R. Junek, Assistant Dean

Re: Adding GBUS 4040 to Chinese Culture & Commerce (CCC) Minor

Effective with the 2011-12 catalog, BADM 4040 was changed to GBUS 4040. The new GBUS rubric was created to separate undergraduate courses from MBA courses taught under the BADM rubric. GBUS 4040 is the same course as BADM 4040, a course that was previously included in the CCC minor. We approve adding GBUS 4040 to the CCC minor.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department ___________________________ College ___________________________ Date __10/2/12__________
Name of Minor ___________________________ Humanities & Social Sciences

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.

( ) 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

(X) DROPPING: Provide an adequate explanation for dropping the minor on plain sheets and attach.

MINOR

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<tr>
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<tr>
<td>Total semester hours in current minor:</td>
<td>18</td>
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<tr>
<td>• To graduate with a minor in political discourse studies, students must complete six hours from three of the following four fields for a total of 18 hours. In addition, at least 12 hours must be at the 3000 level or above.</td>
<td>Total semester hours in proposed minor:</td>
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<td>◦ Communication Studies—two chosen from CMST 3107, 4100, 4160</td>
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<tr>
<td>◦ Mass Communication—two chosen from MC 3500, 4510, 4515</td>
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<tr>
<td>◦ Political Science—POLI 2051 and one chosen from POLI 4030, 4034, 4039</td>
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<tr>
<td>◦ Sociology and Philosophy—two chosen from SOCI 2501, 4421; PHIL 2000, 2020, 4945</td>
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</table>

For additional information, contact Dr. Cecil Eubanks.
240 Stubbs Hall, 225-578-2141.

APPROVALS:

Department Faculty Approval Date 10-08-2012
Department Chair’s Signature ___________________________ (Date) 10/12/12
Chair, FS C & C Committee ___________________________ (Date) 10/30/12

College Faculty Approval Date __10-24-12__________
College Dean’s Signature ___________________________ (Date) 11/14/12

Academic Affairs Approval ___________________________ (Date) 5-5EB, 14/12
We were recently notified that two courses included in the Political Discourse Studies minor, MC 3500 and MC 4510, were expired by their college, but never removed from the minor. Since the aforementioned course drops alter the minor significantly in terms of options, we decided to look at the possibility of dropping the minor. In terms of the number of students pursuing the minor, there are only two students total on campus who currently have the Political Discourse Studies minor declared. Since Fall 2009, only four students have graduated from any college on campus with the minor. Clearly, this minor is not in high demand and students can meet their interests in the disciplines included by pursuing more readily available options (ex., Political Science minor, Communication Studies minor, etc.)
Dear Dean Taylor and Drs. Edwards, Stoner, Shrum, and Burkett-

We have recently been considering the possibility of dropping the minor in Political Discourse Studies and I wanted to include you in this discussion. We were notified that two of the three courses included in the minor (see below) from Mass Communication have been expired. Since this change alters the minor significantly, we had some numbers pulled to see if keeping the Political Discourse Studies minor was a viable option. Currently, there are only two students at LSU who have the minor declared, and only four students have graduated with the minor since 2009. Based upon this information, it seems clear that this minor is not one that is in high demand and confirms that students are getting their needs met for the included disciplines by pursuing other available majors and minors. Since your courses are included in the minor, I wanted to notify you that we would like to pursue a drop of the Political Studies Discourse minor. If you have any questions or concerns about this proposed drop, please feel free to contact me.

Minor Requirements:

To graduate with a minor in political discourse studies, students must complete six hours from three of the following four fields for a total of 18 hours. In addition, at least 12 hours must be at the 3000 level or above.

- Communication Studies—two chosen from CMST 3107, 4100, 4160
- Mass Communication—two chosen from MC 3500, 4510, 4515
- Political Science—POLI 2051 and one chosen from POLI 4030, 4034, 4039
- Sociology and Philosophy—two chosen from SOCL 2501, 4421; PHIL 2000, 2020, 4945

Thank you,
Becky

Rebecca Caire, Assistant Dean
College of Humanities & Social Sciences
Louisiana State University
119 Hodges Hall
Baton Rouge, LA 70803
Phone: (225) 578-3141
Fax: (225) 578-6447
rcaire@lsu.edu
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department: Geography and Anthropology  
Name of Minor: Geography

College: Humanities and Social Sciences  
Date: 10/2/12

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

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.

( ) 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

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<tr>
<td>Total semester hours in current minor: 18</td>
<td>Total semester hours in proposed minor: 18</td>
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<tr>
<td>Requirements for a minor in geography are one course selected from GEOG 1001 or 1003; GEOG 2050 and 2051; one course selected from GEOG 2039, 4020, 4041, 4043, and 4045; and two additional 4000 level geography courses.</td>
<td>Requirements for a minor in geography are one course selected from GEOG 1001 or 1003; GEOG 2050 and 2051; one course selected from GEOG 2039, 4020, 4041, 4043, and 4045; and two additional 4000 level geography courses.</td>
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APPROVALS:

Department Faculty Approval Date 9/14/2012  
Department Chair’s Signature 10/3/12 (Date)

College Faculty Approval Date 10/24/12  
College Dean’s Signature 10/30/12 (Date)

Chair, FS C & C Committee 10/30/12 (Date)

College Contact:  
(Please print name.)

College Contact Email
Justification

The classes were expired many years ago and we want to ensure that the catalog is as up to date as possible regarding possible course options for students pursuing the minors.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department: Geography and Anthropology  
College: Humanities and Social Sciences  
Date: 10/2/12

Name of Minor: Anthropology  

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

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.

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<tr>
<td>Requirements for a minor in anthropology are: Anthropology 1001, 1003, and nine hours to be taken from the following three groups with no more than six hours total from any one group: Group 1 (method and laboratory): ANTH 2016, 3401, 4005, 4010, 4020, 4021, 4023, 4090, Group 2 (area): ANTH 2050, 3004, 4003, 4004, 4017, 4023, 4050, 4051, 4053, 4470, 4475; and Group 3 (topical): ANTH 2015, 2051, 2423, 3060, 4013, 4018, 4040, 4060, 4074, 4082, 4085, 4086, 4440. In addition, ANTH 4909, 4998, and 4999 may be included in the nine hours. Placement of these courses in the above groups depends on the topic and must be determined by the department on a case-by-case basis.</td>
<td>Requirements for a minor in anthropology are: Anthropology 1001, 1003, and nine hours to be taken from the following three groups with no more than six hours total from any one group: Group 1 (method and laboratory): ANTH 2016, 3401, 4005, 4010, 4020, 4021, 4023, 4090, Group 2 (area): ANTH 2050, 3004, 4003, 4004, 4017, 4023, 4050, 4051, 4053, 4470, 4475; and Group 3 (topical): ANTH 2015, 2051, 2423, 3060, 4013, 4018, 4040, 4060, 4074, 4082, 4085, 4086, 4440. In addition, ANTH 4909, 4998, and 4999 may be included in the nine hours. Placement of these courses in the above groups depends on the topic and must be determined by the department on a case-by-case basis.</td>
</tr>
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</table>

APPROVALS:

Department Faculty Approval Date: 9/14/2012  
Department Chair's Signature: 10/5/12  
Chair, FS C & C Committee: 1/30/12

College Faculty Approval Date: 10/31/12  
College Dean's Signature: 2/12/12

Academic Affairs Approval: 1/4/12

College Contact:  
(Please print name.)

College Contact Email:  

Justification

ANTH 4006 was expired many years ago and we want to ensure that the catalog is as up to date as possible regarding possible course options for students pursuing the minors.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE MINOR

Department: International Studies  College: Humanities and Social Sciences  Name of Minor: International Studies  Date: 10/10/2012

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 department 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>
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<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>Total semester hours in current minor: 21</td>
<td>Total semester hours in proposed minor: 21</td>
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</tbody>
</table>

- **Middle East** – 12 hours chosen from at least two different departments: ARAB 2001; ART.2401; GEOG/INTL 4051; HIST 4096; REL 4096; INTL 3992, 4033, 4051; POLI 4059, 4061; REL 2029, 3100, 3786, 3092; SOCL 4551.

- **Middle East** – 12 hours chosen from at least two different departments: ARAB 2001; ART.2401; GEOG/INTL 4051; HIST 4096; REL 4096; INTL 3992, 4033, 4051; POLI 4059, 4061; REL 2029, 3100, 3786, 3092; SOCL 4551.

APPROVALS:

**Department Faculty Approval Date:** 10/3/2012  **College Faculty Approval Date:** 10/24/12

**Department Chair’s Signature:** 10/10/12  **College Dean’s Signature:** 10/24/12

**Chair, FSC C & C Committee:** 10/30/12  **Academic Affairs Approval:**

( )
Justification for Form D:
Effective in the Spring 2011 semester, several of the language options offered through the College of Humanities & Social Sciences were discontinued. Two of the languages that were discontinued, Japanese and Russian, were the only languages whose first two semesters worth of coursework totaled 10 hours instead of the eight hours seen in the other languages offered on our campus. In the Freshman Year of all of the degree programs that have a language option in the College of Humanities & Social Sciences, there is a range in the language component totaling 8-10 hours. This freshman year range needs to be changed to eight hours to reflect current course offerings. However, there is a range in the sophomore year language requirement that needs to remain intact as the third and fourth semester language courses in all areas remains the same. Specifically, the third and fourth semester courses are either three or four hours depending upon the language. To ensure that the degree totals remain at the needed 120 hours, a two hour range in another area of the degree program had to be added.

Justification for Form F:
Because Art 2401 has been removed from the catalog as inactive, it is being removed from the Middle East concentration in the International Studies minor.
REQUEST FOR DROPPING A COURSE

Department Computer Science & Eng. ___________________________ Date 9/19/2012

College Engineering ___________________________

Course rubric & no. CSC 2280 Title Computer Organization ___________________________

Semester hours of credit: 4

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

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

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:

(If additional space is needed, please attach a separate piece of paper.)

Is this course a prerequisite or corequisite for any other courses? Yes ( ) No (X)

If answer to above is yes, please list courses by rubric and course number. (If additional space is needed, please attach a separate piece of paper.)

Rubric ______ Course # ______ Rubric ______ Course # ______

Rubric ______ Course # ______ Rubric ______ Course # ______

Is this course on the general education list? Yes ( ) No (X)

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

CSC 2280 Computer Organization was last taught Fall 2004. The content is partially included in CSC 3501 which is required for all computer science majors.

APPROVALS.

Department Faculty Approval Date 3-5-2012

Department Chair's Signature (Date)

Graduate Dean's Signature (Date)

College Faculty Approval Date 10/1/12

College Dean's Signature (Date)

Chair, FS C & C Committee (Date)

Academic Affairs Approval (Date)
REQUEST FOR DROPPING A COURSE

Department: Agricultural Economics and Agribusiness  Date: 8/27/2012
College: Agriculture

Course rubric & no: AGEC 4213  Title: Economics of Milk Marketing Systems
Semester hours of credit: 3

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)
This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(If additional space is needed, please attach a separate piece of paper.)

Agricultural Business Minor

Is this course a prerequisite or corequisite for any other courses? Yes ( ) No (x)
If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric  Course #  Rubric  Course #

Rubric  Course #  Rubric  Course #

Is this course on the general education list? Yes ( ) No (x)
If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

AGEC 4213 traditionally was a service course for students majoring in dairy science. It emphasized the institutions that made milk markets "man-made" and thus unique among commodity markets. Milk production has evolved from relatively small operations characteristic of the Louisiana dairy industry to very large dairies in the western U.S. One of the consequences of this evolution has been a declining demand for AGEC 4213 by Animal Science majors. In recent years, registration for the course has come from students majoring in agricultural business seeking to fulfill elective hour requirements. Dropping this course will allow the subject matter to be broadened via a new course, in which students of agricultural commodity markets will study these imperfectly competitive markets, along with risk management among primary producers and the value-adding players of those commodities throughout the food and fiber supply chains. The replacement request is proposed concurrently.

APPROVALS:

Department Faculty Approval Date: 8/27/2012

Mail C. Chaves 8/27/12
Department Chair's Signature (Date)

Graduate Dean's Signature (Date)
College Contact: Jennifer Neal

College Contact E-mail: jshew@lsu.edu

College Faculty Approval Date: 9/19/12

Kenneth P. Toomey 9/19/12
College Dean's Signature (Date)
Chair, FIS-C&G Committee

Academic Affairs Approval (Date)
REQUEST FOR DROPPING A COURSE

Department School of Plant, Environmental, and Soil Sciences Date 3/25/12

College Agriculture

Course rubric & no. HORT 7913 Title Seminar

Semester hours of credit: 1

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

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

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter.
(If additional space is needed, please attach a separate piece of paper.)

Is this course a prerequisite or corequisite for any other courses? Yes ( ) No ( X )

If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric Course # Rubric Course #

Rubric Course # Rubric Course #

Is this course on the general education list? Yes ( ) No ( X )

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

The Departments of Agronomy and Horticulture merged years ago. We recently combined the agronomy and horticulture graduate programs into a new degree program: Plant, environmental management, and soil science. Seminar now has students in all disciplines. A revised AGRO 7001 course is simultaneously being submitted. We will drop the horticulture seminar class given that it habitually does not meet enrollment minimums and the seminar class has students in all areas now; the combined seminar class meets enrollment minimums.

APPROVALS:

Department Faculty Approval Date 10/26/12

Department Chair's Signature (Date) Dyer 10-26-12

Graduate Dean's Signature (Date) College Contact: Jennifer Neal (Please print name.)

College Contact E-mail: jshear@ncsu.edu

College Faculty Approval Date 10/26/12

College Dean's Signature (Date) Chair, FSG & C Committee

Academic Affairs Approval (Date)
REQUEST FOR ADDITION OF NEW COURSE

Department: Biological Sciences

Date: 8/24/2012

College:

PROPOSED COURSE

Short Title: BIOCHEMISTRY OF AGING

Rubric & No.: BIOL 4097 Title: Biochemistry of Aging

COURSE CREDIT

Graduate Credit: x YES ___ NO

Semester Hours of Credit: 3 (For combination course types only: Lecture Hrs. Lab/Sem/Rec Hrs.)

If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.

Credit will not be given for this course and: ________________________________ (Indicate rubrics and course numbers)

GRADING

Final Exam: x YES ___ NO Grading System: x Letter Grade ___ Pass/Fail

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

COURSE TYPE (Indicate hours in the appropriate course type)

LEC/REC  LEC/SEM  3 LEC  LAB  LEC/LAB  SEM  CLIN/PRAC  RES/IND

Maximum enrollment per section: 35 (use integer, e.g. 25 not 20-30)

CATALOG TEXT (Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4097 Biochemistry of Aging (3) Prereq.: BIOL 4087 or 4093 The phenomenon of aging and the underlying biochemical mechanisms.

BUDGET IMPACT

If this course is approved, will additional staff be needed? ___ YES x NO

Will additional space, equipment, special library materials or other major expense be involved? ___ YES x NO

(If answer to either question above is 'yes' attach explanation.)

Academic Affairs Approval:

ATTACHMENTS

ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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 9/27/2012

College Faculty Approval 10/17/12

Date:

Department Chair's Signature: ___

(9/28/2012)

Graduate Dean's Signature (for 4000 level and above): ___

(10-30-12)

College Contact: ___

(Please print name.)

College Contact E-mail: ___

College Dean's Signature: ___

(10/30/12)

Chair, FS C&C Committee: ___

(10/30/12)

Academic Affairs Approval: ___

(5/12)
Justification

This course covers a multidisciplinary subject not covered in other courses: organism aging. Rapidly moving research in several areas covers several aging theories, including those of a) free radical,(dietary free radicals, metabolic free radicals, light-induced free radicals and free radical mitigation systems) 2) telomerase theory of aging, telomere degradation, 3) non-enzymatic glycosylation (diabetes age much more rapidly) 4) genetically programmed disposable soma aging, 5) Hormone diminution with age beyond 18, including HGH, IGF's, DHEA, (and menopausal hormone programming). The course covers research in differential aging of organisms, age associated pathologies and their current pharmaceutical, stem cell, genetic therapeutics. The course is taught from the literature, because of the fast-moving field. Progeria, for example, now has a known Lamin A mutation, that leads to higher apoptosis and 7x accelerated aging, where when I began teaching the course, the mechanism was unknown. Likewise Werners accelerated aging (2X) is due to a helicase mutation, both of which lead to higher apoptotic rates. In addition, the class examines claims of neurotacticals for aging mitigation, where actual research has addressed their use. We cover dietary impacts on the inflammatory processes that cause or exacerbate cardiovascular diseases and cancer, especially lipids such as trans fats, omega-3 and -6 precursors to pro-inflammatory prostenedoids, and relevant research. The actual biochemical/immunological benefits of restricted caloric intake, exercise and lifestyle are covered.

The extent to which this proposed course will duplicate other courses offered on the campus must be addressed. Statements from other departments regarding any possible overlap between the proposed course and existing courses must be included.

Very few of these topics are covered in any other university courses. The course brings together into a medical-aging context the basic information garnered in prerequisite courses in the department and others. For example kinesiology students with the proper prerequisites have taken the course. Biol 4087 is a requirement, therefore only students from other departments who have this background are qualified, and the main comment of students is that they have never seen most of the course content before.

Syllabus Attached: This is a CXC certified course. (Recertification form attached.) The grades in the course are judged on the quality of work, including talks, written reviews, a written mid-term paper, and a take-home final exam which is in the form of an NIH Grant Proposal, which is required to be turned in, in final form on the date and time of the final exam. The CXC course is based, in part, on draft/revision process, with the instructor previewing all student presentations for revision/additions/critiques. In this case some students will need more reviews and revisions than others, however, we try to bring all presentations to the same level of excellence. The take-home final is also based on a draft/revision process, where any deficiencies, additions, corrections, need to be completely finished for the final submission. Graduate students enrolled will be required to submit an additional 10 page research paper on an assigned topic.
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Syllabus Version 1.2
Post Isaac
BIOL 4800 (3cr)
Fall 2012
"The Biochemistry of Aging"
Roger A Laine, Professor
rogerlaine@gmail.com
225-268-xxxx phone or text

"It should be the highest priority, salient goal of biochemists and molecular biologists to slow and eventually stop the aging process in humans" RA Laine 2010

CXC:
This is a certified Communication-Intensive (C-I) course which meets all of the requirements set forth by LSU’s Communication across the Curriculum program, including

- instruction and assignments emphasizing informal [mode 1] and formal [mode 2];
- teaching of discipline-specific communication techniques;
- use of draft-feedback-revision process for learning;
- practice of ethical and professional work standards;
- 40% of the course grade rooted in communication-based work; and
- a student/faculty ratio no greater than 35:1.

Students interested in pursuing the “LSU Distinguished Communicator” certification may use this C-I course for credit. For more information about this student recognition program, visit www.cxc.lsu.edu.

Class: 300-0550 T 0218 TUREAUD HALL
CLASS CONTENT:
• The phenomenon of aging.  The Biochemical Mechanisms.
• What we now understand about aging in biochemical and genetic terms.
• Biochemical basis for aging of cells and tissues in man and other organisms.
• Classical and current theories and facts about aging, examined using published evidence from the literature.
• How Biochemists are progressing to stop or slow aging processes, and how they may research biochemical means for aging mitigation.
• Potential for current and future biochemical, genetic, stem cell and pharmaceutical intervention, slowing, and stopping of aging processes.
• Intervention mechanisms of Pharmaceuticals, Nutraceuticals, diet.
• How lifestyles affect the human biochemical and physiological systems and aging rates.
• How Aging defines human society, mores, customs, philosophy, religion, existence, selves, careers, jobs, and how stopping the aging process will affect human culture, expectations experience...........

Structure of the course:
• Student presentations,
  • Long Presentations: 40 minutes:  PowerPoint, Keynote or similar computer projector presentation program of slides. Typically, in the allotted 3 hours class time of 170 minutes, in each class, in the first 2/3 of the semester, we will have 4-5, 40 minute talks by assigned students with discussions after each talk.
  • Short Presentations: In the last 1/3 of the semester, students will present 6-8, 20 minute talks each class period. Students will have experience with both long and short talk preparation and presentation.

Each student will present at least three talks. Some may present 4.
• Students will submit an email to rogerlaine@gmail.com, after each class, before the subsequent classtime, by a single email, for each talk, a one full page, double spaced, (Georgia, Times or Times Roman Font, 11 points size), summary outline (with the exception of your own talk) given that day, with the major points, comments, discussion and critique of the subject matter and presentation. This will be in the format of a 4 (when 4 talks) to 7 page (when there are 7 talks) document double spaced in paragraphs or with bullets, with at least one page devoted to the review of each talk given in that class period. Reviews can be longer than one page. Students do not need to write reviews of their own talks. The email and the attachment must have the following format: subject: 480012FYourNameDate (that is 480012F (the course)YourName and date of the class from which talks are reviewed.

• 50% of Grades will be based on the following communications elements:

1) Powerpoint Presentations: quality of presentations (preparation, thoroughness and delivery),
2) Summary review pages for each talk: the quality of summary pages with discussion and critique of each talk,
3) Written report due on October 16. This report will be on the topic of the health and aging effects of dietary fats, one of the most important topic areas for the class. The requirements for this paper are as follows:

   8 Page (minimum) double spaced Research Paper + references:
   Due at beginning of class time October 16:
   • 4 pages minimum on the effect of Trans Fats (from partially hydrogenated vegetable oils) on Cancer, Cardiovascular, other health:
   • 4 pages minimum on the relative health benefits of Omega 3 and Omega 6 fatty acid containing fats and comparison with olive oil.
   • Source Journal References at the end. All statements in the paper need to be supported with references to research papers, published clinical trials, etc.
   Submit the paper electronically before October 16th with the Subject: 480012F-MidtermPaper-YourName. Attach as a Word or .pdf document.

4) class members’ participation in discussions. The class is expected to speak up, ask questions, stimulate discussion, shyness is abolished upon entry into the classroom!! There is no such thing as a dumb question!!
5) Graduate Credit: One additional research paper 12 pages on a mutually agreed topic with the Professor

- **Previews of talks, slide by slide** will be *obligatory by appointment* with the instructor a minimum 2-3 days before the day of the talk. Thursday afternoons prior to the next Tuesday class are preferred for reviews. Instructor may require a second review after first revision. The complete, finished talk should be ready by Friday on the week previous to a Tuesday presentation.

- Preliminary and Final talks will be emailed to the instructor before the first review and class, respectively, final version loaded onto Paws, Tigerbytes, etc. Students should load their talks onto their PAWS website and bring a memory stick with the talk to the class as a back-up.

**MOODLE:** These talks will be uploaded to Moodle, for student’s reviews, and may be available for public viewing.

- These powerpoint presentations will contain
  1) a Journal-Referenced **background**, **historical section**,
  2) and **current status** of the field, and
  3) will typically require the presentation of **at least one research publication**
     (or more) on the subject to be reviewed, including
     a. hypothesis;
     b. presentation of the data in the experiments and
     c. interpretation of the results by the authors and your assessment and comments thereon.

- Each slide **must have source listed in a footer**.

- The Prof. expects students to do their own research on the topic, but will assist in pointing students to websites, publications, etc. and will help the student with the presentation by going over each slide and assistance and editing or correcting a preview of the talk with the student on the week prior to the talk, by previous appointment. *Remember, in some cases a second preview will be required after first revisions have been suggested.*

**Special News topics on aging:**

- Capriciously, RAL may send out a link to all members of the class to some news on a topic or aspect of aging. Each student is expected to read the news topic, and potentially any scientific publication(s) related to the topic, and be prepared to discuss
the topic in class where class members will be expected to comment, add, discuss, and can chime in with their interpretation of the topic. This will contribute to the “class participation and discussion” part of the grade.

- **Participation is required.** A medical written excuse, notice of family funeral, or notice of interview for professional school will be required for class time absence, and *regardless of excuse*, instead of the usual one page review of the topics, a 4 page, double spaced written report on each of the missed talks, based on the moodle copies of the talks will be required for a missed class, due by the next classtime. Weddings and other social experiments are not acceptable excuses. A non-excused absence of participation will result in a half-grade reduction. *These are 3 hour classes and missing one class is equivalent to missing 3 class hours. Roll will be taken randomly.*

- **Final Exam (50% of grade)** will be a **Research Proposal** in NIH format, **fully developed, independently conceived and thoroughly referenced**, using official “398” forms available on the internet, (www.Grant.gov) and proposing research to investigate **one aspect** of aging from any of the topics covered or listed in the course, or a topic mutually agreed upon with the Prof. This may take 50-100 hours of work, so begin early. I repeat, begin this at least by November 1:

- The complete and finished Printed Out proposal will be turned in on Nov. 20:
  - **Preliminary Final Exam Date.** Then, during the TG holiday, an annotated critique of the proposal will be made by RAL. The proposal will be returned one week later, Nov. 27th for **required revisions, additions, corrections** to obtain a high grade.

- **The final, corrected proposal will be turned in on the day and at the official beginning time of the final exam** listed for this course. The grade will be based on
  1) originality of ideas,
  2) creative approach,
  3) thoroughness of background information and
  4) completeness of proposal.
- **Grades will be based on the following scale:**
  
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<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>below 60%</td>
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</tbody>
</table>

**Recommended books, Authors:** “The First Immortal”, James Halperin, Google: Ray Kurzweil; Aubry de Grey for relevant tomes on Aging.
Schedule: Syllabus Version 1.0:
Biol4800-12F “Biochemistry of Aging”
Three-hour class sessions: 3:10-6:00

August 21: Organization of class.
            Review by RAL, discussion, topic assignments to
            Students

Student talks:

Aug: 23: practice talks for Aug. 28 class by appt. 512 Choppin
         rogerlaine@gmail.com (Bretz, Burger, Duronslet, Ezell)

Aug: 28: Hurricane Break

Sept. 4: 4-40 min presentations:
         - Student 1: Topic: Alzheimers, acetyl cholinesterase, BACE
           Inhibitors, amyloid, lipid peroxidation, tau microfibrillar
           tangles
         - Student 2: Curcumin, Turmeric and Alzheimer’s disease:
         - Student 3: Topic: Progeria (7x accelerated aging), define
           apoptosis, signaling
         - Student 4: Topic: Werners syndrome (2x accelerated aging)

Sept: 11: No Class: RAL will be in Taiwan for a scientific meeting.

Class members are encouraged to begin work on the 8 page paper for October 16th.
The class gets no class time off for the Thanksgiving Holiday, Nov., because we have
3 class hours on Tuesdays. The Sept. 11 class time will partially take the place of 1
hour of class time relief which would be allowed by TG holiday if the class were
MWF. We will schedule some extra time during the semester to make up for the
other 2 lost hours from Isaac.

Sept. 18:
         - Student 5: Animals, Plants that do not age. (Aging is not a
           necessary component of life for many organisms
         - Student 6: Topic: Hayflick limit, eucaryotic cell culture
           senescence

Trivia: The Chess Player: A Poem by Matthew Tierney:
- • the ideal position is the first,
  • each move a further weakness,
  • a giving way of perfection.
  • In this sense,
  • the game is meaningless.

- Just substitute “cell division” for ”move” in the second line……. ;~)

There was even a Band called “Hayflick Limit”!!
- http://www.hayflicklimit.org/Hayflick_Limit/Epitaph.html

- Student 7: Topic: Disposable Soma Theory of Aging. This may encompass all of the other theories of aging.
- Student 8: Topic: Telomerase theory of aging, TA-65,

Sept: 25:– 4,40 min. student presentations
- Student 9: Topic: Free Radical Theory of Aging I. Metabolic origin of free radicals, effects on cellular systems, mitochondrial systems,(still valid, this theory has been tested)
- Student 10: Topic: Neutral Gene Theory of aging (how did we inherit aging?)
- Student 11: Topic: Long Lived Human Populations, Okinawa, Sardinia, etc. Centenarian Studies, Genetics
- Student 12: Topic: Non-enzymatic Glycation, diabetes effects on aging rate, pharmaceutical intervention (Alteon, Inc, others

Oct. 2:– 4, 40 min Student Presentations:
- Student 13: Topic: Human Growth Hormone, (HGH) effects on aging, rejuvenation
- Student 14: Topic: DHEA related to aging.
- Student 15: Topic: oxidative stress Catalase, peroxidase, superoxide dismutase,
- Student 16: Gene enhancement for anti-radical enzymes: Superoxide dismutase overexpression and knockouts in drosophila, C. elegans, mice.

Oct. 9:– 4- 40 minute Student Presentations:
- Student 17: Topic: Biological Clocks, how do organisms mark time passing?
- Burger, Matthew Taylor: Differential Rates of Aging in Animals
- Student 18: Topic: Transdifferentiation, Immortal Sponges, Limb replacement. (amphibians can regenerate limbs through the blastema!)
- Student 1.: Topic: Caloric Restriction and Aging.

Oct 16th: 4-40 minute Student Presentations:
- Student 2: Supermice, PEPCK enhanced expression extends lifespan
- Student 3: Topic, Klotho gene in mice, effects on aging.
- Student 4: Topic: NSAIDS, Cox1, Cox2; for arthritis, long term health benefits of anti-inflammatories,
- Student 5. Topic: Neovasculature and Cancer, VEGF Inhibitors, Avastin, CM101, HP59,

8 Page Paper + references: Midterm Paper;
Due at beginning of class time: email to Prof.
- 4 pages minimum on the effect of Trans Fats on Cancer, Cardiovascular:
- 4 pages minimum on the relative health benefits of Omega 3 and Omega 6 fatty acid containing fats and comparison with olive oil.
* Journal References at the end. All statements supported with references to research papers, clinical trials, etc.

Oct. 23rd: 4-40 minute talks:
- Student 7: Topic: Infarct, inflammatory response, neutrophils, selectins. Inflammation may be a major cause or exacerbator of most diseases of aging.
- Student 8: Topic: Trans Fats and health impacts, cancer, cardiovascular
- Student 9: Topic: Omega 3 and Omega 6 fatty acids and cardiovascular.
Oct 30th: - 4-40 minute student presentations:
   - Student 10: Topic: Cholesterol levels and cardiovascular.
   - Student 11: Topic: Aging and Autoimmune diseases
     including Rheumatoid Arthritis:
   - Student 12: Topic: Hormone replacement therapy, effects on
     aging, osteoporosis, fosamax, etc.
   - Student 13: Topic: Chlamydia pneumonia and
     cardiovascular aging

Nov. 6: 4-40 min talks

   - Student 14: Topic: Stem cell intervention – cardiovascular,
     neural, organ replacement, others.
   - Student 15: Topic: Carnitine and Alpha-Lipoic Acid, work of
     Bruce Ames
   - Student 16. II: Topic: Epigenetic effect on aging, womb to
     late life. Inheritance?
   - Student 17: Topic: Toxoplasmosis infection induces risky
     behavior, shorter life span. Implications for modification of
     free will.

Nov. 13— 7-20 min Student Presentations,

   - Student 18: Effects of Alcohol consumption on Aging.
   - Student 1: Topic: Genetics and Early Heart Disease:
     Prevalence in India
   - Student 2: Topic: Personalized drugs through genetics, for
     cancer, other....
   - Student 3: Topic: Macular degeneration, antioxidant
     therapy: Retina Replacement
   - Student 4: Topic: Sleep and Aging
   - Student 5: Topic: Reconstructive and Plastic Surgery
     restore youth. skin treatments for facial rejuvenation (peels,
     laser, abrasion, pharma.)
   - Student 6: Topic: Nerve regeneration. Humans, amphibians

Nov. 20: | NOTE: Final Exam Proposals Deadline Due: Print & Electronic
- 7 Student Presentations, 20 min.
  - Student 8: Topic: Lipofuscin
  - Joyner, Maggie Leigh: Topic; Cervical Cancer HPV and Gardasil.
  - Student 9: Topic: prostate hypertrophy, flowmax, Saw Palmetto, mechanisms
  - Student 10: Topic: Hypertension and Aging. High Blood Pressure and Genetics, Drugs
  - Student 11: Topic: Carnosine and aging.
  - Student 12: Topic: Organ Replacement, heart, kidney, liver, bladder

Nov 27: Last Class: Final Exam Proposals Returned to Class Members

7 talks, 20 minutes

- Student 13: Arthroplasty, Joint Replacement, Spinal fusion, disc repair systems, plastic injections; Orthotics;
- Student 14: Streptococcus Sanguinus and aging.
- To Be Assigned: Topic: Effect of the development of anti-aging drugs on human culture. Marriage, Family,
- Student 16: Effect of Development of anti-aging on philosophical and religious concepts.
- To Be Assigned: Rest Homes Vs Family Care, survival, death rates.

4:30-9, Class general discussion.

Class Summary: RAL, discussion about the future of aging research
NOTE: Proposals returned to students Nov. 27: for corrections, rewrites, additions.

Dec. 3-8, Final Exam Week.

Monday, Dec. 3rd: Final Exam Proposal Due: 5:30 PM.

Topics not covered this semester: (Talks from previous students will be uploaded to Moodle on these subjects for the class’ interest)

- Sphingosine Kinase 1 Protects Heart Against Ischemia/Reperfusion-Induced Injury:
  Astaxanthin, Co-Q, Niacin, health benefits
- Duronslet, CM: Topic: Ageing of ability to hear. Cochlear Implants:
  - blueberries, cranberries, pomegranites, Acai, health benefit
  - Coffee, Tea, health benefits
  - Lutein, Lycopene health benefits.
  - Jenkins, SL.: Topic: chromosome localized genetics as related to longevity.

Typical topics (list may change, all the topics may not be covered). New topics may be added: Topic suggested from the class are welcomed.

- Time itself, internal biological clocks
- Apoptosis: Programmed cell death (the phenomenon)
  - Signaling systems for apoptosis, control
  - Progeria (7x accelerated aging)
  - Werners syndrome (2x accelerated aging)
- Hayflick limit, eucaryotic cell culture senescence
- Telomerase theory of aging
  - effects of telomerases and other aging elements on cloned animals like dolly, snuppy (others)
- Neutral gene theories of aging
- Rate of aging – why?
- Human Growth Hormone, effects on aging, rejuvenation
• Non-enzymatic Glycosylation – aging effects, sugar-protein reactions, exacerbation of aging in diabetes
• Non-enzymatic glycosylation – pharmaceutical intervention (Alteon, Inc, others)
• Caloric Restriction, retardation effects on aging
• Somatoprotective theory of aging (related to effects of caloric restriction)
• Life at lower body temperatures, effect on aging
• Alzheimers – diagnosis, amyloid, therapeutics
  • Alzheimers, acetyl cholinesterase, BACE Inhibitors, amyloid, lipid peroxidation, microfibrillary tangles
• Theories for low Alzheimers in India, mitigating effects of diet, especially curcumin from turmeric in curries?
• Fat cell hormones and aging rates
• Effects of aging on the immune system
• Thymus and autoimmune disease
• Rheumatoid Arthritis
• Free radical theory of aging:
• Free radical theory of aging, oxidative stress
  • Catalase, peroxidase, superoxide dismutase
• Oxidative Stress on iron-sulfur-proteins
  • restitution by glutathione
• Metabolic origin of free radicals, effects on cellular systems, mitochondrial systems.
• Gene enhancement for anti-radical enzymes
• Superoxide dismutase overexpression in drosophila
• Other genetic oxidative interventions
• Klotho gene in mice, effects on aging.
• macular degeneration, antioxidant therapy
• DHEA – dehydroepiandrosterone – antiaging effects
• Hormone replacement therapy, effects on aging.
• Aging with Caenorhabdis elegans as a model.
• aging in single celled organisms – yeast
• DNA helicases
• Differential rates of Aging and body growth,
• Animals that do not appear to age,
  • 10000 year old Antarctic sponges
  • Rockfish do not age
  • sharks, turtles, fish, etc.
  • attempts to explain different rates of aging in mammals, birds, others. (dogs 7-20,
horses 17-40, elephants 80, whales >200?,
chickens – 35, parrots >100, squid-short
• Plants: Bristlecone pines >6000, redwood, cypress
• Antarctic sponge, 10,000 years old.
• Does the germ line age?
• Angiogenesis related to aging:
• Cancer increases with aging – mechanisms?
• Stem cell intervention – cardiovascular, neural, organ
  replacement, others. (amphibians can regenerate limbs!)
• Cardiovascular effects of aging –
  a. Plaque – genetics, diet, Chlamydia?
  b. Homocysteine effects
  c. Statins, cholesterol,
  d. Inflammation and CV aging.
* Lipofuscin, neural theory of aging
* Bruce Ames (Juvenon) Ames test for mutagenesis, carnitine and
  alpha-lipoic acid, mitochondrial degradation
* Vitamin C, E, astaxanthin (macular degeneration)
  lutein, lycopene, role of antioxidants
• societies with long-lived humans: Japan, Sardinia, Republic of
  Georgia, Loma Linda 7th day Adventists, possible dietary effects,
  genetics, life style.
* chromosome 1 genetics for long life
* class discussion on potential cultural effects of pharmaceuticals that slow
  aging, reverse aging, prevent aging or rejuvenate.

“Health is a state of complete physical, mental and social well-being, and not merely
the absence of disease or infirmity”

“Good health is merely the slowest possible rate at which one can die.”
(anon)

“Life is an incurable disease, ending in death” (anon)

"I'm gonna live forever, or die trying." - Joseph Heller (Catch 22)

“Death is Unacceptable” Raymond Kurzweil

I don't want to be immortal through my work. I want to be immortal through not
dying [Woody Allen].
Don't take life too seriously; you won't get out of it alive [Elbert Hubbard].

“It is the salient goal of biochemists and molecular biologists to slow and eventually stop the aging process in humans” Roger A Laine  2010
Course Certification Form
Personal Information
Name: Roger A Laine
Email: rlaine@lsu.edu
Date Requested: 09/28/2012 10:29:32 AM
Course Information
Is this a New or Existing course? Existing
What year will this course first be taught as Communication-Intensive?
Fall 2012
Department: BIOL
Course Number: 4800
Course Title: SEL TOP IN BIOL SCIENCES
Course College: SCI
Special Topic Emphasis: The Biochemistry of Aging
Maximum number of students expected in course: 035
Course credit hours: 3
Is this course cross-listed? No
- Do you want to certify the cross-listed course? No
Course Certification Criteria
1. Does the course contain both informal opportunities to learn content using communication activities and formal communication projects? Yes
2. Which communication mode(s) will your course emphasize?
   Written Communication, Spoken Communication
Written Communication
Number of formal writing assignments: 02
Feedback? Yes  Revision? Yes
Total number of revised, edited pages of formal writing: 25
Approximate number of informal writing assignments: 16
Spoken Communication
Number of formal speeches: 02
Feedback? Yes  Revision? Yes
Total number of revised, edited pages of formal speeches: 30
Approximate number of informal speeches: 01
3. Will the course have a student:instructor ratio no greater than 35:1 for Communication-Intensive activities? (This includes recitation groups or sections within the course that may be led by graduate instructors.) Yes
4. Are the assignments typical of the genres associated with your field or discipline? Yes
5. Will class time be spent on communication? Yes
6. Will the faculty member be directly involved in evaluation using clearly communicated criteria? Yes
7. Will at least 40% of the final grade in the course be based on communication? Yes
Attachments:
480012F-SyllabusV1.2.pdf
I will insert the text below in the syllabus and each instructor will distribute it to all students. Yes
This course is certified as a "Communication-Intensive Course" and meets all of the requirements explained on the CxC Web site: http://cxc.lsu.edu/, including the following:
Emphases on formal and informal assignments in written communication and spoken communication, class time spent on communication, 40% of the final grade based on communication projects, revisions after faculty feedback on 2 formal projects (one for each emphasis), and a student/faculty ratio of 35:1. Because it meets these requirements, students may count it toward "Distinguished Communicator" certification on LSU transcripts.
CxC has permission to post this syllabus as an example of a CommunicationIntensive course.
Comments: This is a renewal of an already approved course.

http://appl010.lsu.edu/cxc/cxcoursecertification.nsf/Automatic...
2 9/28/12 10:49 AM
REQUEST FOR ADDITION OF NEW COURSE

Department: School of Art
Art + Design

College:

Date: 2/10/2012

PROPOSED COURSE

Short Title: DIGITAL ART SEMINAR

Rubric & No.: ART 7255
Title: Digital Art Seminar

COURSE CREDIT

Graduate Credit: YES

Semester Hours of Credit: 3

(complete for 4000 level courses only)

For "Lecture/Lab" type courses only:
Lecture Hrs: __
Lab Hrs: ___

If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.

Credit will not be given for this course and: N/A

GRADING

Final Exam: YES

Grading System: Letter Grade

Pass/Fail

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

7055 Digital Art Seminar (3) Prereq: consent of instructor. May be taken for a max. of 21 sem. hrs. of credit. Creative and theoretical project critique, discussion of contemporary issues and research-based investigations in digital media.

BUDGET IMPACT

Will additional space, equipment, special library materials or other major expense be involved? YES NO

If answer to other question above is 'Yes', attach explanation.

ACADEMIC AFFAIRS APPROVAL:

ATTACHMENTS

ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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 5-11-12 (date)

College Faculty Approval 7-21-17 (date)

Department Chair's Signature 5-14-12 (date)

College Dean's Signature 10-9-12 (date)

Chair, FS C&C Committee 6-5-12 (date)

Academic Affairs Approval 6-5-12 (date)

Graduate Dean's Signature (for 4000 level and above) (date)
Justification for ART 7255 - Digital Art Seminar

The proposed course ART 7255 Digital Art Seminar is a central component of the graduate education of students focusing on Digital Art, taken every semester leading up to the thesis year. Its critique-based structure and content follows traditional MFA curriculum at the School of Art and graduate programs in art nationwide. This course will differ from the other proposed digital art graduate course, 7250 Digital Art Praxis, by focusing on writing, discussing, and presenting on theoretical concepts in digital media as compared to Praxis which will concentrate on putting theory into use and applying concepts brought up in Seminar. Distinct courses are needed as the instructional approach is so different between the two. Seminar is designed to be taught each semester while Praxis is designed to be taught only once per year in order to augment each student's practice with technological skill sets.

Justification for No Final Exam

The learning methods for the Digital Art Seminar are discussion and critique of creative works as well as written, multimedia and oral presentations developed over the course of the semester. Coursework is evaluated throughout the semester which culminates in a final project; there is no final exam style evaluation.
**Course Number**  | ART 7255  | **Section Number**
---|---|---
**Room**  | Art Building 328  | **Class Times**

### Course Description
The Digital Art Seminar is a graduate level course that focuses on the creation of a substantial creative research project or body of artwork. It is a critique and research-based class; symbiotic investigations will support the intellectual and critical development of your art practice.

### Learning Objectives
- Creative project development for contemporary art and culture audiences
- Contextualization of creative practice in theoretical and art historical frameworks
- Technical mastery to execute creative projects professionally
- Critical awareness and development, including implementation of methods and vocabulary for self-critique and peer-critique
- Effective communication using forms and language appropriate to art professions

### Methods of Instruction
- Critique / Major Project Development, Intensive Feedback Laboratory
- Research / Oral Presentations, Writing

### Methods of Assessment
- Course Grading Rubric
  - Major Project Development 50%
  - Research Projects 50%
• Major Project Development Grading Rubric
  • Ambition & Dedication 20 points
  • Technical Mastery 20 points
  • Creativity & Innovation 20 points
  • Theoretical and Historical Relevance 20 points
  • Professional Presentation 20 points

• Research Projects Grading Rubric
  • Comprehension 20 points
  • Critical Thinking 20 points
  • Originality 20 points
  • Efficacy of Communication 20 points
  • Ambition & Dedication 20 points

• Grading Scale
  • A: 90 – 100%
  • B: 80 – 89%
  • C: 70 – 79%
  • D: 60 – 69%
  • F: 0 – 59%

Course Framework

Major Project. You will propose and complete a major project, which in most cases, you will complete independently. Collaborative projects may be acceptable, if proposed and agreed upon with the instructor. You are responsible presenting substantial progress on your progress during four progress critiques scheduled throughout the semester and presenting a final presentation at the conclusion of the semester.

Research. You will complete approximately five research projects throughout the semester, which you will present to the class in oral, written and/or multi-media form. Research projects will be targeted to the developmental needs of the class and will address:
  • Artistic Influence
  • Interdisciplinary Research
  • Theoretical Foundations
  • Artist Statement and Talk
  • Technical Mastery

Project Policies

• The Digital Art Seminar is the central course in your development as an artist.
Extraordinary effort, experimentation and ambition is required of all students. Student are expected to dedicate the majority of their waking hours on their major project and research projects for this seminar. The student evaluation rubric assumes students at the graduate level are highly invested in the formation of the art practice. The instructor may reduce grades or refuse to accept work that is incomplete, demonstrates insufficient progress or lacks engagement with the critique and feedback process.

- Because of the presentation and critique structure of the class, no late work is accepted. Scheduled class presentations cannot be made up unless you have made prior arrangements due excused reason in accordance with LSU policy [see LSU Policy Statement 22 (PS-22) regarding Student Absence from Class]. If you have an excused absence make sure to arrange to have your work delivered or posted to the class website before class.

- All course work must be original to this class. No work or project components may be used for this course and another unless approved by the instructors of both classes.

### Resources

- **Class Website**
  - [http://moodle.lsu.edu](http://moodle.lsu.edu)
- **Recommended Books**
  - [http://delicious.com/tag/sumfabooks](http://delicious.com/tag/sumfabooks)
- **Technical Tutorials**
  - [http://mystart.lsu.edu](http://mystart.lsu.edu)
- **Online Reference Materials**
  - [http://delicious.com/tagg/sumfareference](http://delicious.com/tagg/sumfareference)

### Presence and Participation

- Students are expected to arrive on time at the beginning of each class.

- Interaction and discussion are an important aspect of the learning process and are critical for establishing critique relationships among your peers. Taking part in discussions and critiques, asking questions, demonstrating engagement with research project, turning assignments in on time, taking initiative, problem solving, sharing your discoveries and critical perspectives with fellow classmates is required of all students.

- Be aware that failure to attend class will inevitably affect your understanding of the concepts of this course and can therefore significantly affect your grade on
subsequent project work and overall class performance.

**Reasonable Accommodation**

If you have a disability you feel may prevent you from fully demonstrating your abilities, contact me as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your involvement in this class.

**Notes**

- I often communicate changes, feedback, recommendations, clarification of requirements and other useful information for which you may be responsible by email. It is critical that you check your email regularly.

- This syllabus is a working document and is subject to change. It will be posted on the class website where any changes will be published if they do occur. Students will be notified by email or in class if changes occur.

- Students are responsible for recreation of any lost or damaged files. Back up your work!
Schedule for ART 7255 - Digital Art Seminar

Week 1: Research - Intro to Class
Activity: Reading on Contemporary Practice, Discussion of Goals for Semester
Homework: None

Week 2: Critique - Crit Group 1
Activity: Each student introduces their work and project plans for the semester, 30-40 min critique
Homework: Group 1 - Two-page Major Project proposal and sample work

Week 3: Critique - Crit Group 2
Activity: Each student introduces their work and project plans for the semester, 30-40 min critique
Homework: Group 2 - Two-page Major Project proposal and sample work

Week 4: Research - The Anxiety of Artistic Influence
Activity: Artistic Influence presentations, Q&A
Homework: Slide presentation on established artist that influences your work, outline for 15-minute oral presentation

Week 5: Critique - Crit Group 1
Activity: 30-40 minute progress critique
Homework: Group 1 - Major Project progress

Week 6: Critique - Crit Group 2
Activity: 30-40 minute progress critique
Homework: Group 2 - Major Project progress

Week 7: Research - Interdisciplinary Research
Activity: Humanities or sciences research presentations, Q&A.
Homework: web-based Interdisciplinary Research presentation, with citations, links and outline for 15 oral minute presentation

Week 8: Critique - Crit Group 1
Activity: 30-40 minute progress critique, Group 2 students lead discussion of a presenting student's work
Homework: Group 1 - Major Project progress

Week 9: Critique - Crit Group 2
Activity: 30-40 minute progress critique, Group 1 students lead discussion of a presenting student's work
Homework: Group 2 - Major Project progress

Week 10: Research - Theoretical Foundations
Activity: Theory presentations & discussion
Homework: 500-word abstract of chosen theoretical paper with discussion of its applicability to your work, copies of chosen theory article with highlighted passages and annotations for the class, 10 minute presentation.
**Week 11: Critique - Crit Group 1**  
*Activity:* 30-40 minute progress critique  
*Homework:* Group 1 - Major Project progress

**Week 12: Critique - Crit Group 2**  
*Activity:* 30-40 minute progress critique  
*Homework:* Group 2 - Major Project progress

**Week 13: Research - Technical Mastery**  
*Activity:* Each student presents demo on technique learned or mastered in creating their major project  
*Homework:* Materials and lesson for technical demo

**Week 14: Critique - Final Critique - All Groups**  
*Activity:* Each student presents results of semester's creative research project  
*Homework:* Final version of Major Project, final artist statement
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical & Industrial Engineering          Date: 9/25/12
College: Engineering

PROPOSED COURSE
Rubric & No.: ME 4973          Title: Space Systems
Short Title:          (≤ 19 characters)

COURSE CREDIT
Graduate Credit: x YES         NO

Semester Hours of Credit: 3   (For combination course types only: Lecture Hrs. Lab/Sem/Rec Hrs.
If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.
Credit will not be given for this course and:

GRADING
Final Exam: x YES         NO   Grading System: x Letter Grade        Pass/Fail
(Attach justification if the proposed course will not hold a final exam during examination week.)

COURSE TYPE
(Indicate hours in the appropriate course type)

MAXIMUM ENROLLMENT PER SECTION: 25  (use integer, e.g. 25 not 20-30)

CATALOG TEXT
(Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4973 Space Systems (3) Prereq.: ME 3133, credit or registration in ME 4143. Design of spacecraft for
orbital operations, space exploration, and human spaceflight. Includes mission requirements;
astrodynamics; atmospheric entry; top-level design of power, propulsion, attitude determination and
control; communications; thermal management; life support; reliability; cost and scheduling; political,
commercial and national security aspects of spaceflight.

BUDGET IMPACT
If this course is approved, will additional staff be needed? x YES      NO
(If answer to either question above is 'yes' attach explanation.)

ATTACHMENTS
ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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   9/7/12
College Faculty Approval     10/1/12
Department Chair's Signature 9/28/12
Graduate Dean's Signature 10/30/12

College Contact:              (Please print name)
College Contact E-mail:

Academic Affairs Approval   11/4/12
Chair, FS C&C Committee   11/10/12

FORM A
ADMINISTRATIVE USE ONLY

REV. 3/2012
JUSTIFICATION

This course is listed as a core course for the Aerospace Engineering Minor (AERO) and has been taught twice as ME 4943. Enrollment for the two taught were – Spring 11 – 16, and Spring 12 – 18.

The Aerospace Engineering minor is now well established and course numbers are needed to help in properly administering the minor and advising students. All ME courses have prerequisites and co-requisites programmed into the system. For generic courses like ME 4943, there is no way to enforce the prerequisites and students sometimes enroll in classes they are not prepared to take.

Graduate students will not be treated differently from undergraduate students.

This course has 1 hour of Engineering Science and 2 hours of design.
Mechanical Engineering 4943:
Special Topics in Aerospace Engineering (Space Systems)

Instructor
Michael James Martin
Assistant Professor
2523A Patrick Taylor Hall
578-1131
mjmartin@lsu.edu
Office Hours: To be announced

Communications Contact
David "Boz" Bowles
Technical Communications Instructor
2302 Patrick F. Taylor Hall
578-9952
dbowles@lsu.edu
Office hours: By appointment

Course Description:

This course is a survey of the design and operation of manned and unmanned spacecraft. The class is designed as a broad overview both of the design of individual systems of the spacecraft, such as propulsion, power, and guidance, and their integration into a complete mission. The course also covers the design process, from mission requirements to detailed design of the spacecraft. Where appropriate, the instructor will incorporate discussion of related topics, such as the space environment, frontiers in space exploration, the history of spaceflight, and the political and security aspects of space flight.

In practice, design of any mission involves hundreds of individuals with different skill sets. Functioning in this environment requires strong written and oral communications skills. To reflect this, development of professional communications skills is incorporated into the class. This class has been certified as Communications Intensive (Writing and Speaking) in cooperation with the Communications Studio.

Course topics:

The course will cover the following topics, although not necessarily in the given order:

1. Overview of Space Systems
2. Astrodynamics
3. Launch Systems
4. Atmospheric entry
5. Overview of future mission objectives
6. Astrobiology
7. Science Objectives and Payloads
8. System Requirements and Integration
9. Spacecraft Systems:
   a. Space Propulsion
   b. Structures
   c. Spacecraft Attitude Determination and Control
   d. Thermal Management
   e. Power Systems
   f. Communications
   g. Life support
10. Spacecraft reliability
11. Cost and Schedule estimation
12. Human spaceflight
Mechanical Engineering 4943:  
Special Topics in Aerospace Engineering (Space Systems)  

Prerequisites:  
Students should have completed courses in dynamics and thermodynamics prior to taking this class. Students will find having a class in heat transfer useful, but will be able to learn the necessary material during the class. Several assignments will require the ability to solve engineering problems numerically using MATLAB.

Course Materials:  
The textbook for this class is  
Note that this book is available through the AIAA web page at a discount to student members. The price of a student membership plus the discounted price of the book is approximately equal to the price of the book in the bookstore, and membership has additional benefits.  
The course will also use Volume 1 of the Columbia Accident Investigation Board (CAIB) report, which is available on-line at  
You may also find it useful to look at the National Research Council’s report “New Frontiers in the Solar System: An Integrated Exploration Strategy,” which is available on-line at:  
http://www.nap.edu/catalog.php?record_id=10432  
However, this is reference material and you will not need your own copy.

A wiki of articles in the popular press (NY Times, Washington Post, BBC, etc.) will be maintained. You will need to read these articles for class and to maintain your journal. The course wiki is  
http://1su-me-4943.wikispaces.com  
You will need to access the AIAA’s Journal of Spacecraft and Rockets on-line for the written article. The web page of the journal is:  
http://www.aiaa.org/content.cfm?pageid=322&lupubid=25  
You can only access the first page of the articles without a subscription. Once you have selected an article, you can obtain a copy through inter-library loan, or request it from your instructor.

Assignments that require numerical simulations should be coded in MATLAB, which can be used on computers on the campus network through a campus-wide shared license. Students who wish to have MATLAB on their own personal computers can purchase a discounted MATLAB & Simulink Student Version from mathworks.com.

Graded items:  
The course grade will be based on two exams, homework, short reports, in-class presentations, a written article, a final project, and class participation.
Mechanical Engineering 4943:
Special Topics in Aerospace Engineering (Space Systems)

Short reports, presentations, and the project reports will be done in three-person groups. Each three-person group will be assigned to evaluate the technology challenges, and mission objectives, for a particular proposed mission, such as exploration of Venus, sending a probe to a comet, etc. As explained below, when a particular technology or concept is explained, each group will write a short report, and give a short presentation, relating the concept to the proposed mission. The results will then be integrated into a project report.

Groups will be assigned by the instructor after the first week of class, to ensure each group has the necessary set of skills for the assignments. Your first homework assignment will be to e-mail an up-to-date resume as a pdf file to the instructor by 5 PM on January 22.

The weight of each item in the grade is:

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Take-home exam</td>
<td>15%</td>
</tr>
<tr>
<td>Final exam</td>
<td>15%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Short Reports</td>
<td>10%</td>
</tr>
<tr>
<td>Presentations</td>
<td>10%</td>
</tr>
<tr>
<td>Article</td>
<td>10%</td>
</tr>
<tr>
<td>Project Draft Report</td>
<td>5%</td>
</tr>
<tr>
<td>Project Report</td>
<td>15%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
</tbody>
</table>

Take-home exam

A take-home examination will be given at the mid-point of the semester. Students may use the text and their notes to complete the exams but may not consult other students or outside sources.

Final exam

The final exam will be on Friday, May 13, from 3 to 5 PM.

Homework

8-10 homework assignments will be given over the course of the semester. The format of the homework will be posted on moodle. You may consult with other students on the homework but the final product must be your own work.

Short reports and Presentations

Most homework assignments will be accompanied by a short assignment to relate the material to your assigned mission. For instance, if your “mission” is the exploration of Venus, and the material is on spacecraft orbits, you may be asked to calculate the energy requirements for moving a spacecraft from earth orbit to land on Venus. This will be done as a group. The report should be no more than 2 pages at 1½ line spacing and 12 point font. The lowest report grade will be dropped. However, all reports must be submitted, since the calculations will be used in the final report.
Mechanical Engineering 4943:
Special Topics in Aerospace Engineering (Space Systems)

Each group will give a 3-5 minute presentation on their results from each short report to the class. The report sessions will be conducted as an engineering meeting. Each meeting will be moderated by a project group selected by the instructor.

Article

You will select an article from the *AIAA Journal of Spacecraft and Rockets* relating to your assigned objective. You will write a sample magazine article, designed for the general public, on the technology or science described in the article. The article should be at the same level as the newspaper articles you will be following in the class wiki.

Report Draft

As you work through the short reports assessing the challenges for sending a spacecraft to achieve a set of science objectives, the outline of a spacecraft design will start to emerge. You will use this information to prepare a 10 page proposal for a spacecraft design.

*Note that over the course of the semester, you will have to go back and change systems designed earlier to meet new needs imposed by new requirements. For instance, you may have to change your power system based on the power needs of your communications system. This is part of the process of systems integration, a key step in the design of aerospace systems.*

The draft report will be due about 3 weeks before the end of the semester.

Report

Based on comments on the draft, you will revise and resubmit your proposal, making changes in both the technical content and the presentation. This report will be due on the last day of the class.

Participation

Participation will be based on weekly quizzes on the reading material on the wiki.

To prepare for the quizzes, you should keep a notebook summarizing the key points of each article you read. You may use the notebook during the quizzes.

Grading scale:

The grading scale is

A = 100-90, B = 89.999-80, C = 79.999-70, D = 69.999-60, F <60
## Approximate schedule for Space Systems

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overview of Space Systems</td>
</tr>
<tr>
<td>2 - 4</td>
<td>Astrodynamics</td>
</tr>
<tr>
<td>5</td>
<td>Launch Systems and Atmospheric entry</td>
</tr>
<tr>
<td>6</td>
<td>Overview of future mission objectives, astrobiology, science objectives and payloads</td>
</tr>
<tr>
<td>7</td>
<td>System Requirements and Integration</td>
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<tr>
<td>8-12</td>
<td>Spacecraft Systems</td>
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<tr>
<td>8</td>
<td>Space Propulsion and structures</td>
</tr>
<tr>
<td>9</td>
<td>Spacecraft Attitude Determination and Control</td>
</tr>
<tr>
<td>10</td>
<td>Thermal Management</td>
</tr>
<tr>
<td>11</td>
<td>Power Systems &amp; Communications</td>
</tr>
<tr>
<td>12</td>
<td>Spacecraft reliability</td>
</tr>
<tr>
<td>13</td>
<td>Cost and Schedule estimation</td>
</tr>
<tr>
<td>13 &amp; 14</td>
<td>Human spaceflight</td>
</tr>
</tbody>
</table>
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical & Industrial Engineering  Date: 9/25/12
Engineering

College: ________________________________

PROPOSED COURSE  Short Title: JET & ROCKET PROP
Rubric & No.: ME 4923  Title: Jet & Rocket Propulsion

COURSE CREDIT  Graduate Credit:  

Semester Hours of Credit: 3  (For combination course types only:  Lecture Hrs.  Lab/Sem/Rec Hrs.

If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.

Credit will not be given for this course and:

GRADING  Final Exam:  

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

Letter Grade  Pass/Fail

COURSE TYPE  (Indicate hours in the appropriate course type)

/ LEC/REC  / LEC/SEM  X LEC  / LAB  / LEC/LAB  / SEM  / CLIN/PRAC  / RES/IND

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

CATALOG TEXT  (Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4923 Jet and Rocket Propulsion (3) Prereq.: ME 2334 and 3834. Propulsive systems;
aerothermochemistry; air-breathing propulsion; rocket propulsion.

BUDGET IMPACT  If this course is approved, will additional staff be needed?  

Will additional space, equipment, special library materials or other major expense be involved?  

(if answer to either question above is "yes" attach explanation.)  Academic Affairs Approval:  

ATTACHMENTS  ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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  9/7/12  College Faculty Approval  10/1/12

Department Chair's Signature  9/24/11  College Dean's Signature  10/30/12

Graduate Dean's Signature (for 4000 level and above)  10-30-12  Chair, FS C&C Committee  10/30/12

College Contact: ________________________________  (Please print name )

College Contact E-mail: ________________________________

Academic Affairs Approval  10/30/12
JUSTIFICATION

This course is listed as a core course for the Aerospace Engineering Minor (AERO) and has been taught as ME 4943 for a number of years. For the last two years the enrollment was 15 in Fall of 2011 and 17 in Fall of 2012.

The Aerospace Engineering minor is now well established and course numbers are needed to help in properly administering the minor and advising students. All ME courses have prerequisites and co-requisites programmed into the system. For generic courses like ME 4943, there is no way to enforce the prerequisites and students sometimes enroll in classes they are not prepared to take.

Graduate students will not be treated differently from undergraduate students.

This course has 1 hour of Engineering Science and 2 hours of design.
ME 4943 Jet and Rocket Propulsion
Fall 2011

Syllabus

Instructor: Dr. Adam Baran
Lockheed Martin Space Systems
13800 Old Gentilly Rd.
New Orleans, LA 70129

Class Contact/Correspondence
email: adan.baran@yahoo.com
cell phone: (985) 640-2186 (before 9:00 PM)

Course time/location: TTh 7:30 – 9:00 AM, Rm. 3129 Patrick Taylor
Instructor’s office hours: TTh 9:00–10:00 AM, Rm. 2520 Patrick Taylor

Prerequisites by topic: Thermodynamics ME 2334, Fluid Mechanics ME 3834

Course credit: 3 hours (1 hour Engineering Science; 2 hours Engineering Design).

Catalog description:
4943 Special Topics in Aerospace Engineering (3) Prereq.: senior standing in mechanical engineering or related discipline. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Aerodynamic problems of special interest in the analysis and design of water, land, air, and space transportation systems.

Outline of Course Topics

Part 1 – Propulsion Overview / Aerothermochemistry – 5 weeks

1.1 Introduction to propulsive systems – (1 week)
(a) air breathing vs. rocket propulsion
(b) types of propulsive engines
(c) ideal jet propulsion thermodynamic cycle
(d) thrust generation

1.2 Review of aerothermochemistry – (4 weeks)
(a) fundamental equations
(b) thermodynamics of gases
(c) equilibrium combustion
(d) quasi-1D adiabatic flow in variable area ducts
(e) 1D flow with friction and heat addition
(f) normal and oblique shocks

Part 2 – Air-breathing Propulsion – 4 weeks

(a) thrust and efficiency
(b) aircraft engines—ramjets, turbojets, turbofans, turboprops
(c) aircraft range equation
(d) engine performance
(e) engine-aircraft matching
(f) axial flow compressors and turbines
(g) inlets, combustors, exhaust nozzles, and afterburners

Part 3 – Rocket Propulsion – 4 weeks

(a) basic concepts and performance parameters
(b) rocket staging
(c) rocket nozzle design
(d) liquid propellant engines
(e) solid propellant motors
(f) hybrid rocket engines

Course text:

[1] Gonthier, K., Personal communication, August 15, 2011. Syllabus for this course adapted from the Spring 2010 ME 4943 syllabus
Supplemental texts:

Instructor’s emphasis:
Emphasis will be placed on the rational application of basic principles of fluid mechanics, thermodynamics, and combustion in the analysis and design of both air-breathing and rocket propulsion systems. Students will be expected to demonstrate their comprehension of course material in homework exercises, in-class quizzes and examinations, and course projects. Following completion of the course, students are expected to know how jet and rocket engines produce thrust and how to successfully analyze overall engine performance, individual engine components and performance, and chemical rocket performance. Students are also expected to improve their technical writing skills through the preparation of design project reports.

Accounting/legalistic details:
Grades will be assigned based on the students’ performance on written in-class exams, homework, in-class quizzes, projects, and class participation. The weight assigned to each is as follows:

- Exam 1 – Part 1 (Thursday, September 22) 14%
- Exam 2 – Part 2 (Tuesday, October 25) 14%
- Exam 3 – Part 3 (Tuesday, November 22) 14%
- Final Exam (TBD, Week of December 5-10) 25%
- Homework 5%
- Quizzes 5%
- Design Projects 20%
- Class Participation 3%
- Total 100%

The grading scale used for this course is: A (90-100%), B (80-89%), C (70-79%), D (60-69%), and F (< 60%). A university-approved excuse must be provided in case of absence during a quiz or examination. All work must be completed to receive a passing grade.

The three in-class exams and the final exam will be closed book; however, each student can bring one 8.5 in × 11 in. sheet of paper with formulas to the first exam (Part 1 material), two to the second exam (Part 1 and Part 2 material), two to the third exam (Part 1 and Part 3 material) and three to the final exam (Part 1, 2 and 3 material). Formula sheets must be turned in with the exams. Worked example problems and discussion cannot be included on the formula sheets. The in-class exam dates are tentative as they will depend on the course pace.

Homework will be regularly assigned from the text and other sources. All homework will be graded and returned, though the grading will not always be detailed. However, detailed solutions will be made available to you. Each student is responsible for the preparation and timely submission of their own homework. Homework must be done on one side only of 8 1/2 in × 11 in. engineering paper, and multiple pages must be stapled. You should briefly restate the problem, give a simple sketch (drawing) illustrating the problem, give all simplifying assumptions, give the analysis, and box-in your final answer. Correct units should always be given with numerical values. Neatness counts (points will be deducted for sloppiness!). Late homework and projects will not be accepted.

You are encouraged to discuss homework among one another as you formulate your analysis individually. Your written work should reflect your knowledge of the problem, and academic honesty is expected; as such, you should briefly acknowledge in writing any significant discussions or interactions you had with others regarding the work you submit, e.g. Tiger, M., Personal Discussion, January 20, 2010. Failure to identify substantial contributions of others may result in a failing grade for that assignment.

Brief but effective in-class quizzes will be given regularly to encourage students to keep pace with the lectures and reading assignments. Quiz material will mostly come from the lecture notes and homework exercises.

One can expect the following routine on a more or less weekly basis: Tuesday lecture, Thursday lecture, Homework problems assigned that week due the following Tuesday, and then a brief quiz at the beginning of next Tuesday’s
Homework and quiz will be graded and returned the next class. The intent here is a “study-for-the-exam-as-you-go” approach and feedback on how you are doing.

A minimum of two course projects will be assigned during the semester. Each student must work alone on the projects and must submit a well-written report summarizing the problem, solution approach, and results. Reports are to be professionally prepared using word processing and graphics software. You may use literature and Internet resources, but may not seek the advice of anyone but the instructor. You will be notified of project topics and due dates during the semester and will be given sufficient time to complete them.

The class participation grade will be assigned by the instructor based on 1) class attendance, 2) participation during lectures (i.e., attending lectures and asking questions), 3) the timely submission of assignments, and 5) seeking out-of-class help from the instructor when needed. Remember that there is no such thing as a stupid question! We all learn from your questions. You should always see the instructor when having difficulty comprehending course material; I am happy to help.

**Important Dates**

The following dates are worth noting:

- **August 29 (Tu)** Final date to drop courses without receiving a grade of "W"
- **August 31 (Th)** Final date for adding courses for credit and making section changes
- **October 13-16 (Th–Sun)** Fall Holiday (classes resume at 7:30 AM on Monday)
- **November 4 (Fri)** Final date for resigning from the University and/or dropping courses
- **December 3 (Sat)** Classes end
- **Week of December 5–10 (Mon–Sat)** Final exams

**Homework Format**

Your Name ME 4943 HW #0 1/1

Problem Number: 1.1

**Problem Statement:**
- Briefly restate the problem. You don’t have to restate the problem word for word, but provide enough information so that the problem is well-defined.

**Schematic:**
- Neatly hand sketch a simple diagram illustrating the problem. The diagram should identify the coordinate system and control volumes used to solve the problem, and all relevant locations, lengths, and notation used in the analysis (as commonly done in the course textbook). Draw anything that will aid in describing and solving the problem.

**Assumptions:**
- Give assumptions used in the analysis.

**Analysis:**
- Systematically give the analysis. Be neat, and make sure that there is a logical progression in your analysis (e.g., avoid writing down random thoughts and ideas).
- Box in your final answer. Make sure that appropriate units are specified.
- Does your final answer make physical sense? If not, recheck your assumptions and analysis.
- Perform your analysis in pencil, erasing all mistakes.
- Give credit to all sources of help (including your fellow students).

**Remember that neatness counts!** Points will be deducted for sloppiness.
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical Engineering

College of Engineering

Date: 7/3/12

PROPOSED COURSE

Short Title: AERODYNAMICS

Rubric & No.: ME 4913

Title: Aerodynamics

COURSE CREDIT

Graduate Credit: X YES

Semester Hours of Credit: 3

(For combination course types only: Lecture Hrs. Lab/Sem/Rec Hrs.)

If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.

Credit will not be given for this course and:

GRADING

Final Exam: X YES

Grading System: X Letter Grade Pass/Fail

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

COURSE TYPE

(Indicate hours in the appropriate course type)

<table>
<thead>
<tr>
<th>LEC/REC</th>
<th>LEC/SEM</th>
<th>LEC</th>
<th>LAB</th>
<th>LEC/LAB</th>
<th>SEM</th>
<th>CUN/PRACT</th>
<th>RES/IND</th>
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<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum enrollment per section: 25

(Use integer, e.g. 25 not 20-30)

CATALOG TEXT

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

4913 Aerodynamics (3) Prereq.: ME 2334, 3834 or graduate standing. Fundamental principles and concepts of aerodynamics; inviscid incompressible and compressible flow; and viscous flow phenomena.

BUDGET IMPACT

If this course is approved, will additional staff be needed? X YES

Will additional space, equipment, special library materials or other major expense be involved? X YES

(If answer to either question above is 'yes' attach explanation.)

Academic Affairs Approval: [Signature]

Date: [Date]

ATTACHMENTS

ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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

(9/7/12)

College Faculty Approval

(10/1/12)

College Dean's Approval

(10/10/12)

Chair, FS C&C Committee

(10/30/12)

Graduate Dean's Signature (for 4000 level and above)

(10-30-12)

College Contact:

(Please print name)

College Contact E-mail:

[Email]

Academic Affairs Approval

(6/28/12)
JUSTIFICATION

This course is listed as a core course for the Aerospace Engineering Minor (AERO) and has been taught as ME 4943 for a number of years. Enrollment for the last three times taught were – Fall 07 – 16, Fall 10 – 8, Spring 12 – 12.

The Aerospace Engineering minor is now well established and course numbers are needed to help in properly administering the minor and advising students. All ME courses have prerequisites and co-prerequisites programmed into the system. For generic courses like ME 4943, there is no way to enforce the prerequisites and students sometimes enroll in classes they are not prepared to take.

Graduate students will not be treated differently from undergraduate students.

This course has 1 hour of Engineering Science and 2 hours of design.
ME 4943 Aerodynamics
Spring 2012

Syllabus[1]

Instructor: Dr. Adam Baran
Lockheed Martin Space Systems
13800 Old Gentilly Rd.
New Orleans, LA 70129

Class Contact/Correspondence
email: abaran@lsu.edu

Cell phone: (985) 640-2186 (before 9:00 PM)

Course time/location: TTh 7:30 – 9:00 AM, Rm. 3129 Patrick Taylor
Instructor’s office hours: TTh 9:00–10:00 AM, Rm. 2520 Patrick Taylor

Prerequisites by topic: Thermodynamics ME 2334, Fluid Mechanics ME 3834

Course credit: 3 hours (1 hour Engineering Science; 1 hour Engineering Design).

Outline of Course Topics

1. Fundamental principles and concepts of aerodynamics – (2 weeks)
   (a) overview – goals of aerodynamic analysis
   (b) mathematical tools – vector calculus
   (c) governing equations – mass, momentum, and energy equations, state relations
   (d) key concepts – aerodynamic forces and moments on moving bodies, pathlines, streamlines and
   streaklines, vorticity and circulation, stream function and velocity potential.

2. Inviscid, incompressible flow (potential flow) – (7 weeks)
   (a) overview – importance of potential flow analysis, reduced governing equations.
   (b) elementary 2-D potential flows – sources, sinks, doublets, vortices, Kutta-Joukowski Theorems,
   lift generation, source panel numerical method
   (c) flows over airfoils – thin, symmetrical, and cambered airfoils, vortex panel numerical method
   (d) flow over wings – downwash and induced drag, Prandtl’s lifting line theory

3. Inviscid, compressible flow – (5 weeks)
   (a) overview – important features of high-speed flow, reduced governing equations
   (b) shock and expansion waves – normal and oblique shocks, Prandtl-Meyer expansion waves
   (c) internal flows – nozzles, diffusers, wind tunnels
   (d) external flows – airfoils and wings
   (e) numerical methods – high-resolution, shock capturing, TVD methods

4. Introduction to viscous flow phenomena – (1 week, time permitting)
   (a) qualitative aspects of viscous flows and boundary layers

Course text:

[1] Gonthier, K., Personal communication, August 15, 2011. Syllabus for this course adapted from the Fall 2010 ME 4943 syllabus.
Instructor's emphasis:
Emphasis will be placed on the development of a sound understanding of basic principles and techniques used to estimate aerodynamic forces and moments acting on moving bodies and their application in airfoil and wing design. Both incompressible and compressible flows will be examined. Students will be expected to demonstrate their comprehension of course material in homework exercises, in-class examinations, and design projects.

Accounting/legalistic details:
Grades will be assigned based on the students' performance on written in-class exams, homework, in-class quizzes, projects, and class participation. The weight assigned to each is as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Exam 1 – Part 1 (Thursday, February 23)</td>
<td>14%</td>
</tr>
<tr>
<td>Exam 2 – Part 2 (Tuesday, March 20)</td>
<td>14%</td>
</tr>
<tr>
<td>Exam 3 – Part 3 (Tuesday, April 26)</td>
<td>14%</td>
</tr>
<tr>
<td>Final Exam (TBD, Week of May 7-11)</td>
<td>25%</td>
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<tr>
<td>Homework</td>
<td>5%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>Design Projects</td>
<td>20%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

The grading scale used for this course is: A (90-100%); B (80-89%); C (70-79%); D (60-69%); and F (< 60%). A university-approved excuse must be provided in case of absence during a quiz or examination. All work must be completed to receive a passing grade.

The three in-class exams and the final exam will be closed book; however, each student can bring one 8.5 in. x 11 in. sheet of paper with formulas to the first exam (Part 1 material), two to the second exam (Part 1 and Part 2 material), two to the third exam (Part 1 and Part 3 material) and three to the final exam (Part 1, 2 and 3 material). Formula sheets must be turned in with the exams. Worked example problems and discussion cannot be included on the formula sheets. The in-class exam dates are tentative as they will depend on the course pace.

Homework will be regularly assigned from the text and other sources. All homework will be graded and returned, though the grading will not always be detailed. However, detailed solutions will be made available to you. Each student is responsible for the preparation and timely submission of their own homework. Homework must be done on one side only of 8 1/2 in. x 11 in. engineering paper, and multiple pages must be stapled. You should briefly restate the problem, give a simple sketch (drawing) illustrating the problem, give all simplifying assumptions, give the analysis, and box-in your final answer. Correct units should always be given with numerical values. Neatness counts (points will be deducted for sloppiness!). Late homework and projects will not be accepted.

You are encouraged to discuss homework among one another as you formulate your analysis individually. Your written work should reflect your knowledge of the problem, and academic honesty is expected; as such, you should briefly acknowledge in writing any significant discussions or interactions you had with others regarding the work you submit, e.g. Tiger, M., Personal Discussion, January 20, 2010. Failure to identify substantial contributions of others may result in a failing grade for that assignment.

Brief but effective in-class quizzes will be given regularly to encourage students to keep pace with the lectures and reading assignments. Quiz material will mostly come from the lecture notes and homework exercises.

One can expect the following routine on a more or less weekly basis: Tuesday lecture, Thursday lecture, Homework problems assigned that week due the following Tuesday, and then a brief quiz at the beginning of next Tuesday's lecture. Homework and quiz will be graded and returned the next class. The intent here is a "study-for-the-exam-you-should-do" approach and feedback on how you are doing.

A minimum of two course projects will be assigned during the semester. Each student must work alone on the projects and must submit a well-written report summarizing the problem, solution approach, and results. Reports are to be professionally prepared using word processing and graphics software. You may use literature and Internet resources, but may not seek the advice of anyone but the instructor. You will be notified of project topics and due dates during the semester and will be given sufficient time to complete them.

The class participation grade will be assigned by the instructor based on 1) class attendance, 2) participation during lectures (i.e., attending lectures and asking questions), 3) the timely submission of assignments, and 5) seeking out-
of-class help from the instructor when needed. Remember that there is no such thing as a stupid question! We all
learn from your questions. You should always see the instructor when having difficulty comprehending course
material; I am happy to help.

Homework Format

Your Name: ____________________ ME 4943 ____________________ HW #3 ____________________ 1/1

Problem Number: 1.1

Problem Statement:
• Briefly restate the problem. You don’t have to restate the problem word for word, but provide enough information so
  that the problem is well-defined.

Schematic:
• Neatly hand sketch a simple diagram illustrating the problem. The diagram should identify the coor-dinate system
  and control volumes used to solve the problem, and all relevant locations, lengths, and notation used in the analysis
  (as commonly done in the course textbook). Draw anything that will aid in describing and solving the problem.

Assumptions:
• Give assumptions used in the analysis.

Analysis:
• Systematically give the analysis. Be neat, and make sure that there is a logical progression in your analysis (e.g.,
  avoid writing down random thoughts and ideas).
• Box in your final answer. Make sure that appropriate units are specified.
• Does your final answer make physical sense? If not, recheck your assumptions and analysis.
• Perform your analysis in pencil, erasing all mistakes.
• Give credit to all sources of help (including your fellow students).

Remember that neatness counts! Points will be deducted for sloppiness.
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical & Industrial Engineering  Date: 9/25/12
College: Engineering

PROPOSED COURSE
Rubric & No.: ME 4223  Title: Welding Engineering II
Short Title: WELDING ENGR II  (≤ 19 characters)

COURSE CREDIT  Graduate Credit:  X YES  NO
Semester Hours of Credit: 3  (For combination course types only:  Lecture Hrs.  Lab/Sem/Rec Hrs.
If course may be repeated for credit (i.e. special topics), course may be taken for a max. of  credit hours.
Credit will not be given for this course and:

GRADING  Final Exam: X YES  NO  Grading System: X Letter Grade  Pass/Fail
(Attach justification if the proposed course will not hold a final exam during examination week.)

COURSE TYPE  (Indicate hours in the appropriate course type)

/  LEC/REC  /  LEC/SEM  3  LEC  /  LAB  /  LEC/LAB  40  SEM  CLIN/PRACT  RES/IND
Maximum enrollment per section: 40  (use integer, e.g. 25 not 20-30)

CATALOG TEXT  (Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4223 Welding Engineering II (3) Prereq.: ME 2723 or 2733; ME 3633; ME 421?; or consent of
Instructor; grade of "C" or better in ENGL 1001. Fundamentals and intermediate level welding and
joining; intermediate nondestructive evaluation emphasizing phased-array-ultrasonics; design
calculations of welded structures; advanced welding processes.

BUDGET IMPACT  If this course is approved, will additional staff be needed?  YES X NO
Will additional space, equipment, special library materials or other major expense be involved?  YES X NO
(If answer to either question above is "yes," attach explanation.)
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 curricula. 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  9/7/12
Department Chair's Signature (date)  10/2/12
Graduate Dean's Signature  10/30/12
College Dean's Signature  10/6/12
Chair, FS C&C Committee

College Contact:
(Please print name)
College Contact E-mail:

Academic Affairs Approval  10/10/12
JUSTIFICATION

This course, and a companion course ME 4213 Welding Engineering I, are being established under a grant from the Nuclear Regulatory Commission. This course has been taught once as ME 4933 Advanced Topics in Mechanical Engineering. Spring 2012 – 23 students. This course is also an elective course for the Nuclear Power Engineering (NCPE) Minor. This course is structured so that students can take this course before the companion course ME 4213 with consent of the instructor. ME 4213 and 4223 are both needed for a good understanding of welding engineering.

ME students are only allowed to take 6 hours of ME 4933 courses and this causes problems with some students who are pursuing the NCPE minor, which requires 12 hours of core and elective courses. Due to course availability they might need to take a third course under ME 4933.

With generic courses like ME 4933, there is no way to enforce prerequisites and co-requisites. Having a course number will allow prerequisites and co-requisites to be programmed into the system.

Welding is widely used in most industries. Chemical, petrochemical, and petroleum on the gulf coast use welding extensively, and these industries are the primary employers of LSU ME graduates. This course provides students with a basic understanding of welding and joining technology that will be useful in their careers.

Graduate students will not be treated differently from undergraduate students.

This course has 1 hour of Engineering Science and 2 hours of design.
LOUISIANA STATE UNIVERSITY

DEPARTMENT OF MECHANICAL ENGINEERING

ME 4933 - WELDING & NDT – (WELDING ENGINEERING-II) (Technical Elective-A. 3-
Credit Point, 2-Design-Point Credit, a C-I course)

SPRING - 2013

( "U.S. Nuclear Regulatory Commission (NRC) Sponsored Course" on Welding and
Nondestructive Evaluation-(Welding-II))

Instructor: Dr. M.A. Wahab
Associate Professor

Website: http://appl003. lsu. edu/mech/mechweb. nsf/index

E-mail: wahab@me. lsu. edu

Office: Patrick F. Taylor Hall – 1419-E

Office Hours: Tuesdays & Thursdays: 10:30 to 11:30 am; or through E-mail
appointments

Lectures & Venue: Tuesdays & Thursdays, 9:00-10:30 am,
Patrick F. Taylor Hall - 2103

Office Telephone: (225) 578-5823

Invited Lectures by: Dr. Su-Seng Pang and Dr. Ayman Okeil

TA: TBA

OFFICE HOURS: TBA

GENERAL COURSE STATEMENT:

4933 Welding & NDT- (Welding- II) (3) Prereq: ME 2723 (Mat. Engg.), ME 2733 (Mat. Engg.), ME 3633
(Manufacturing), and proficiency in English as required by the College of Engineering; 3hrs.Lecture/Lab
per week.

This course covers: (i) fundamentals and intermediate level materials of welding and joining; (ii)
intermediate level course materials on Nondestructive Evaluation of welded structures with an emphasis
on phased-array- ultrasonics; and (iii) the design calculations of welded structures. This course covers
physics of welding, mechanical, and non-destructive and fatigue testing of welded structures, post-weld
residual stresses and distortion; advanced welding processes (submerged arc weld, flux-cored arc weld,
plasma arc weld, friction-stir-welding, high frequency welding and welding of plastic components);
modeling heat sources, modeling of weld processes, case studies of weld failures, fatigue and fracture
mechanics analysis, and structural integrity analysis of welded structures, weld safety issues; and
thermal spraying and cold spraying.

COURSE GOALS/OBJECTIVES:
This course helps students to utilize the fundamental principles of engineering science, weld design,
and mathematics; and will help develop aptitude for the underlying social, ethical, and aesthetic aspects
of engineering; gain knowledge of the fundamental theory of the processes, engineering design,
materials, and testing of welds; able to apply their fundamental welding engineering knowledge in an
integrated fashion to solve diverse practical problems in the welding and joining field; develops effective
communication skills in written, oral, and informal forms with a variety of audiences.

ABET Course Objectives:
ME Program outcomes: (ME - 4933/ME 7953 meets the requirements for the following four items- a, d,
e, and g ABET Criteria inclusive):
The Mechanical Engineering program desires that our students attain the following ABET outcomes in ME 4933/ME 7953 Welding & NDT:

- Ability to apply knowledge of math, engineering, and science (a);
- Ability to function on multidisciplinary teams (d);
- An ability to identify, formulate, and solve engineering problems (e);
- An ability to communicate effectively (g);

**Prerequisites:** ME 2723 (Materials for Engineering), ME 2733 (Materials for Engineering), ME 3633 (Manufacturing Engineering); and proficiency in English language (spoken and written) as required by the College of Engineering. Knowledge of Strength of Materials preferred.

**Textbook:** No fixed textbooks are allocated for this course but references will be used extensively, and lecture materials will be posted in Moodle.

**References:**

**Supplemental Materials:** Handout, Lecture Notes, Reference journal/conference publications will be distributed and posted in Moodle.

**Computer Usage:** ME-Dept. has the facilities for ANSYS FEA, Excel, MathLab, etc.

<table>
<thead>
<tr>
<th>Grading and Evaluation</th>
<th>Marks</th>
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<tbody>
<tr>
<td>Welding and NDT - Labs</td>
<td>10%</td>
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<tr>
<td>First Term-Test: (Test-I)</td>
<td>10%</td>
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<tr>
<td>Second Term-Test: (Test-II)</td>
<td>10%</td>
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<tr>
<td>Homework/Quiz/Possible Industry visits/ Reports (weekly/biweekly-set homework will be assigned. Each homework will carry only one mark (grades assigned on homework will be only for specific feedback for examination preparation). announcement will be made for Quiz and grades will be assigned, possibly arranged Industry visits may take place.</td>
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<tr>
<td>Final Semester-Project (Seminar Powerpoints Presentation)</td>
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<td>Final Semester-Project Report</td>
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<td>Final Examination (Written--Two Hours Closed Book, with a 3-page crib sheet)</td>
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<td><strong>TOTAL MARKS</strong></td>
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<td><strong>Grading Policy:</strong> Must be discussed with the Instructor first, for any Re-Evaluations within one to two weeks of assessment.</td>
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<td><strong>General Remarks:</strong> Read College of Engineering Policy on Plagiarism.</td>
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<tr>
<td><strong>Submissions Rules of Softcopies:</strong> All Homework, reports of any type, and final project reports, Seminar Powerpoints must be submitted as Soft copies (pdf or .word documents) through E-mails to the Instructor. Students must keep copies of their own submission for their own reference as final project reports will be kept for Departmental use and references. A single hard copy of the Homework/Report etc. must be submitted at the beginning of the lecture to the Instructor for grading.</td>
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</tr>
</tbody>
</table>
1. Introduction to Welding Processes
   - Review of the Fundamentals of Arc welding processes (from Welding-I course)
     - Oxy-Acetylene gas welding
     - Gas Tungsten Arc welding
     - Gas Metal Arc welding
   - Basic Welding metallurgy

2. Welding Processes for Industrial Applications
   - Submerged Arc welding
   - Electroslag Welding
   - Plasma Arc welding
   - Electron Beam Welding
   - Laser Beam Welding
   - Friction- Stir- Welding (FSW)

3. Potential Weld Failures and Imperfections in Welding
   - Service failures, fatigue, Corrosion, Imperfections in welds
   - Post- weld consequences: residual stresses and distortion
   - Weld-quality requirements and testing of welds

4. Residual Stresses and Distortions of Welds
   - Fundamentals, nature and causes of residual stresses
   - Measurements and distributions of residual stresses
   - Welding sequence
   - Longitudinal shrinkage, Transverse shrinkage
   - Bending shrinkage and Angular shrinkage
   - Methods mitigating post-weld distortions
   - Residual stresses in multipass gusset joint

5. Heat flow and Welding Arc
   - Fundamentals
   - Conduction of heat during welding process
   - Convective heat transfer in weld pool
   - Relative importance of conduction and convection
   - Voltage distribution along arc length
   - Electrical characteristic of welding arc
   - Output of welding heat source
   - Arc efficiency
   - Metal transfer modes
   - Introduction to heat sources

6. Modeling Strategies
   - The multiphysics of welding
   - Thermomechanics of welding
   - Modeling options
   - Modeling strategies
   - Current state of computational weld mechanics
   - Microstructure modeling of fusion welds
7. **Joint Design, Testing, and Inspection**
   - Joint Design fundamentals, Weldment design program
   - Role of materials selections
   - Design of Structural members
   - Selection of Welded joint details
   - Connections and structures, Design criteria
   - Fatigue Strength of Welded Structures
   - Single and Double V-groove butt joints
   - Beveled and U-groove butt joints
   - Lap joints, T-joints, Stress calculations
   - Welding Codes and standards

8. **Non-Destructive Evaluations (NDE) of Welded Structures**
   - Discontinuities with welding processes
   - Visual Inspections
   - Radiographic methods
   - Liquid Penetrant method
   - Phased array ultrasonics testing (PAUT)

9. **Testing and Assessment of Welds**
   - Testing and assessment needed in welded structures
   - Quality of welds
   - Destructive testing, tensile tests, bend tests, shear tests
   - Fracture resistance tests, Drop-weight tests
   - Fracture toughness tests
   - Hardness and metallographic tests
   - Liquid Penetrant, Magnetic particles, Radiography, Ultrasonic tests.

10. **Fracture Control and Structural Integrity Program**
    - Fracture control program for welded structures
    - Introduction to LEFM, Crack-tip plasticity
    - Fracture and residual strength
    - Fatigue crack growth
    - Stress Intensity factor analysis
    - Service induced damages, weld repair
    - Damage tolerant design considerations
    - Structural integrity of welded aging systems
    - Case study: Oil and gas pipelines

11. **Thermal Spraying and Cold Spraying**
    - Fundamentals of thermal spraying
    - Process variables
    - Feedstock, substrates, spray techniques
    - Substrate preparations
    - Microstructure of spray deposits
    - Plasma spraying
    - Vacuum plasma spraying
    - Low heat input processes
    - Cold spray systems
    - Plasma spray equipments and control
    - Coating characteristics

12. **Welding and Bonding of Plastics**
    - Characteristics of plastics
    - Welding as a method of joining plastics
    - Hot gas welding
    - Plastic welding equipment
- inspection and testing
- Causes of faulty welds
- Procedures for hand welding PVC plastics

**ME 4933: WELDING ENGINEERING: Spring 2013**

**Instructor:** DR. M. A. WAHAB—Patrick F. Taylor Hall- 1419 E;

**Class Schedule:** TBA; PATRICK F. TAYLOR- TBA

<table>
<thead>
<tr>
<th>Week</th>
<th>Tentative Topics—may change due to Lab organization</th>
<th>Remarks</th>
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<tbody>
<tr>
<td></td>
<td>Loc., Date, &amp; Month</td>
<td>Tentative Lecture/Lab program</td>
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<tr>
<td>1</td>
<td>L1-</td>
<td>Intro to the Course, Course Outline, Project Discussions, Grades, Group allocations, etc.</td>
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<tr>
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<td>L2-</td>
<td>Introduction to Welding Processes</td>
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<td>L3-</td>
<td>Welding Processes for Industrial Applications</td>
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<td>L4-</td>
<td>Final Day for Dropping Course</td>
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<td></td>
<td>L5-</td>
<td>Welding Processes for Industrial Applications</td>
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<td>L6-</td>
<td>Potential Weld Failures and Imperfections in Welding</td>
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<td>L7-</td>
<td>Residual Stresses and Distortions of Welds</td>
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<td>4</td>
<td>L8-</td>
<td>Residual Stresses and Distortions of Welds</td>
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<tr>
<td></td>
<td>L9-</td>
<td>Heat flow and Welding Arc</td>
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<tr>
<td>5</td>
<td>L10-</td>
<td>Lab- Welding (Welding of the specimens)</td>
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<td>L11-</td>
<td>Lab - (Welding (polishing, etching, hardness, and micrographs)</td>
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<td>6</td>
<td>L12-</td>
<td>Mardi Gras</td>
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<td>L13-</td>
<td>Heat flow and Welding Arc</td>
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<td>7</td>
<td>L14-</td>
<td>Modeling Strategies</td>
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<td>L15-</td>
<td>Modeling Strategies</td>
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<tr>
<td>8</td>
<td>L16-</td>
<td>Joint Design, Testing, and Inspection</td>
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<td>L17-</td>
<td>Joint Design, Testing, and Inspection</td>
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<tr>
<td>9</td>
<td>L18-</td>
<td>Non-Destructive Evaluations (NDE) of Welded Structures</td>
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</table>

NDT Lectures Ultrasonics (PAUT) | HW5 |

ME 4933 welding engineering/maw/fall 2010
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>10</td>
<td>L17: NDT Demonstrations (Lab and Report Requirements)- O’Keil</td>
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<td>L18: NDT Hands-on practices (30 minutes session in groups-1)- O’Keil</td>
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<tr>
<td>10 Apr</td>
<td>12 Apr</td>
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<tr>
<td>14</td>
<td>Spring Break</td>
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<tr>
<td>15</td>
<td>L22: Fracture Control and Structural Integrity Program</td>
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<td>L23: Thermal Spraying and Cold Spraying</td>
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<tr>
<td>16</td>
<td>L24: Thermal Spraying and Cold Spraying</td>
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<td></td>
<td>L25: Welding and Bonding of Plastics</td>
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<tr>
<td>1 May</td>
<td>3 May</td>
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<td></td>
<td>Project Final Seminar (G1, G2, &amp; G3)</td>
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<tr>
<td></td>
<td>Project Final Seminar (G4, G5, G6)</td>
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<td>All Group Project Final Reports Due</td>
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<tr>
<td>10 May</td>
<td>Students may view the Final Exam</td>
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<tr>
<td></td>
<td>Graded Papers (9 to 11 am)</td>
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<td></td>
<td>Posting of FINAL Grades Due by TBA</td>
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</tbody>
</table>

Available help for Welding Lab-1:

Mr. Charles Smith will be available to help you with the welding of the samples during the following tentative timetable. You need to coordinate your time schedule so that Charlie and the TA are present to help your group.

**Mr. Charles Smith tentative availability: (MIG and TIG are to be used):**

- **Tuesdays:** 9:00 to 10:30 am (Welding Bay-ME Workshop)
- **Thursdays:** 9:00 to 10:30 am (Welding Bay-ME Workshop)

**GENERAL CLASS POLICY:**

1. Students are advised to keep all materials and handouts in an organized folder and to complete all homework problems/reports etc. Students must study handout materials as well as reference materials to broaden their understanding in welding engineering; there may be questions from materials that may not have been covered during the lectures but questions for exam may be set from these materials. Students’ work may be posted in Moodle for other students’ reference and additional information.
(2) Copying homework from others may be construed as academic dishonesty and will be dealt as per College of Engineering Plagiarism policy. No late submission of Homework will be accepted without any genuine reason. Students are encouraged to distribute their marked design solutions among the various groups and discuss their solutions among themselves to gain further understanding by group-learning, especially on project-related issues.

(3) Term tests dates are scheduled in the Course schedule. No late-sitting in tests will be allowed in normal circumstances, unless very specific reason arises on that day.

(4) The instructor reserves the right to change any test pattern, test dates, homework, and class-rules, with prior in-class announcement. Therefore, it is automatically understood that students are required to attend all lectures/tutorial/lab sessions. It is the students' responsibility to keep track of the scheduled dates for the tests, any changes in these dates, materials covered in the class, and all announcements made during the lecture hours. Students are advised to follow the attendance policy carefully as in-class participation is mandatory. Excuses must be documented and instructors must be notified through e-mails to record absentees. It is expected that attendances may/or will be recorded on an extemporize basis and the Final grade assessment may be influenced on the attendances for in-class participation.

(5) Calculators and Crib-Sheets: Programmable calculators are permitted during the tests and final Exam. A 3-page crib sheet will be allowed during the midterm tests and final examination.

ME 4933: Welding Engineering RESEARCH PAPER- SEMINAR PRESENTATION and SUBMISSION OF POWERPOINTS AND FINAL PROJECT REPORTS

Topic and Student Groups:
Undergraduate student may choose to work within a group not exceeding up to 4- students and graduate students may form groups of 1 to 2 students only, either on a topic which may be relevant to his/her own area of research or which could be from any areas related to industrial welding problems, non-destructive evaluations of welded structures, fracture mechanics, and fatigue of welded structures, corrosion, creep of welded structures, weld design or weld-repair for pressure vessels, ship fabrications or nuclear structures or any other industrially relevant topics that deals with welding and non-destructive evaluations associated problems. There must be design components within your project which may be built at a later date through another welding-class.

Due Date:
The written paper is due on the date shown in the Course Schedule. The maximum length, should not exceed 20,000 words (main body of the paper approximately 40-typed pages, 12-font size, single-sided, single-spaced, (Arial 11 or New Times Roman 12 font sizes). Appendices are not counted within the page-limit.

Seminar:
The technical part of the paper must be presented during “in-class” seminar on the date shown in the Course Schedule. The presentation will be for 10 to 12 minutes for final reports and 5 minutes allocated for discussions, questions, and comments. The Seminar presentation must be a “Power-Point” presentation. The seminar Powerpoints and final project reports must be submitted electronically to the instructor on or before the deadline.

Format:
Standard Journal format must be adopted for submission to a Journal or for a conference. Example, can be taken i.e. from any suitable Journal for the topic researched. Journal/Conference submission is encouraged prior to “In-Class” presentation.

Authorship Rules:
If the research has been undertaken by the student and under general guidance of the student's Major supervisor and/or the Course Instructor, their names should be included as 'Authors'; students' own name(s) must be included as the First Author(s).
Acknowledgements:
Appropriate acknowledgment must be made to recognize help received from individuals or organizations.

General Format of the Paper:
The paper must contain an Abstract (written in present tense-around 300 words), brief Introduction to the problem, literature review related to the topic, theoretical analysis or experimental research, numerical modeling and description of methodologies, results and conclusions, acknowledgements, Appendix-I (References), Appendix-II (Notations, if any). The paper must be complete in all respect.

Reference Citation:
Reference citation must be in the format of author's last name and year of publication and those should be organized in an alphabetical order in the Reference Section of the paper.

Bi-Weekly discussion with Course Instructor:
Students are required to maintain relevant discussion on a bi-weekly basis with the instructor, during consulting/ outside lecture hours. Students may also discuss with the Major Supervisor to seek his/her help in the progress of the research.

Maintain Design Logbook:
"Students should document their design processes in a project-specific Design notebook. This Design notebook is meant for informal writing, and will not be graded in this course, but is, nevertheless, an important part of an effective design process and students will require bringing them to the Course Instructor every time they come to have discussions with him."

Final Project Report:
Report should contain a(i) hardcopy of the paper, (ii) a CD version of the paper plus Seminar materials which should include the copy of the paper and the Seminar Power point, a (iii) Softcopy (.doc/. docx version) of the Seminar material. (iii) Information to support that the paper has been submitted to the appropriate journal.

Reference Format

Note: Authors must reference the original source of a work, not a Secondary source. All references must be completed prior to submission as a possible journal manuscript. The following list gives examples of commonly lacking information:

1. Names of publishers (for books and proceedings) and their locations. Proceedings require the same information as other books.
2. Inclusive page numbers or (for books) chapters.
3. Complete journal names (no abbreviations unless part of actual title).
4. Journal volume and issue numbers (or months).
5. Locations of companies, universities, and societies in reports and papers.
6. The DOI (Digital Object identifier) should be incorporated in every reference for which it is available. A DOI is an identifier of intellectual property entities on digital networks. It provides a system for persistent identification and interoperable exchange of managed information. The use of DOIs as identifiers makes the management of intellectual property in a network environment easy and convenient and allows the construction of automated services and transactions. For more information on DOIs and their value, visit www.doi.org or www.crossref.org.
7. For all references: Spell out everything except AIAA, NASA, NACA, AGARD, and NATO; months may be abbreviated. All references must be numbered and cited in numerical order in the text. Classified or export-restricted references, personal/private communications, and personal Web sites are not permitted. A reference that is not reliably available is of no use to readers. List all authors.
Follow examples for Referencing format:

Chapter in a Book:

Journal Article:
doi: xx.xxxx/xxxxxx
or (if published only electronically and not yet available in a particular journal issue).

doi: xx.xxxx/xxxxxx

Proceedings/Transactions Articles:

Company Report:

NASA Report:

Meeting Paper:


AIAA Book Series:

Electronic Media:


ME 4933 welding engineering/mau/fall 2010
Anonymous Report:
[Note: Include month if available.]

Communication-intensive (C-I) courses (CxC approved course):
This is a certified Communication-intensive (C-I) course which meets all of the requirements set forth by
LSU's Communication across the Curriculum (CxC) program, including:
- Instruction and assignments emphasizing informal and formal (mode 1) and (mode 2);
- Teaching of discipline-specific communication techniques;
- Use of draft-feedback-revision process for learning (design logbook);
- Practice of ethical and professional work standards;
- 40% of the course grade rooted in communication-based work; and
- A student/faculty ratio no greater than 35:1.

"LSU Distinguished Communicator": Students interested in pursuing the "LSU Distinguished
Communicator" certification may use this C-I course for credit. For more information about this student
recognition program, visit www.cxc.lsu.edu.

LSU's Distinguished Communicators:
This program, the first of its kind nationally, recognizes students who meet the highest standards for
communication. Students take 12 hours of Communication-intensive classes, maintaining a minimum
3.0 GPA. Students must also demonstrate their communication skills in a digital portfolio and in
leadership activities on and off campus. Those who complete the program receive a special designation
on their LSU transcripts.

CxC: Studio Staff Members
Warren Hull, P.E., Engineering Communication Studio Coordinator, E-mail: whull@lsu.edu;
Tel: 225 578-7664.
Boz Bowles, M.F.A., Technical Communication Instructor, E-mail: dbowles@lsu.edu;
Tel: 225 578-9952.

LOG SHEET FOR ENROLLMENT: - Spring 2012
PLEASE TRY TO FILL-OUT THE LIST BEFORE YOU ATTEND THE FIRST LECTURE

<table>
<thead>
<tr>
<th>No</th>
<th>LASTNAME, First Name</th>
<th>E-mail</th>
<th>Contact Phone #</th>
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<tr>
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ME 4933 welding engineering/maw/fall 2010
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical & Industrial Engineering
College: ____________________________
Date: 9/25/12

PROPOSED COURSE
Rubric & No.: ME 4213
Title: Welding Engineering I
Short Title: WELDING ENGR I

COURSE CREDIT
Graduate Credit: x YES ___ NO
Semester Hours of Credit: 3
(Lecture Hrs. Lab/Sem/Rec Hrs.
If course may be repeated for credit (i.e. special topics), course may be taken for a max. of _____ credit hours.
Credit will not be given for this course and:

GRADING
Final Exam: x YES ___ NO
Grading System: x Letter Grade ___ Pass/Fail
(Indicate rubrics and course numbers)

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

COURSE TYPE
(Indicate hours in the appropriate course type)

LECR/LAB 3 LEC SEM
Maximum enrollment per section: 40
(use integer, e.g. 25 not 20-30)

CATALOG TEXT
(Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4213 Welding Engineering I (3) Prereq.: ME 2723 or 2733; ME 3633; grade of "C" or better in ENGL 1001. Fundamentals of welding and joining; introduction to nondestructive evaluation; basics of welding technology and welded structures; GMAW, and GTAW, shielded metal arc welding processes.

BUDGET IMPACT
If this course is approved, will additional staff be needed? x YES ___ NO
Will additional space, equipment, special library materials or other major expense be involved? x YES ___ NO
(If answer to either question above is yes, attach explanation.)
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 curricula. 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 9/7/12
Department Chair’s Signature ____________________________ Date: __________

College Faculty Approval 10/1/12
College Dean’s Signature ____________________________ Date: __________
Chair, FS C&C Committee ____________________________ Date: __________

Graduate Dean’s Signature (for 4000 level and above) 10-30-12
College Contact: ____________________________
(Please print name)
College Contact E-mail: ____________________________

Academic Affairs Approval (date)
JUSTIFICATION

This course, and a companion course ME 4223 Welding Engineering II, are being established under a grant from the Nuclear Regulatory Commission. This course has been taught several times as ME 4933 Advanced Topics in Mechanical Engineering. Fall 2010 – 14 students, Fall 2011 – 40 students, and Fall 2012 – 40 students. This course is also an elective course for the Nuclear Power Engineering (NCPE) Minor.

Welding is widely used in most industries. Chemical, petrochemical, and petroleum on the gulf coast use welding extensively, and these industries are the primary employers of LSU ME graduates. This course provides students with a basic understanding of welding and joining technology that will be useful in their careers.

Graduate students will not be treated differently from undergraduate students.

This course has 1 hour of Engineering Science and 2 hours of design.
LOUISIANA STATE UNIVERSITY

DEPARTMENT OF MECHANICAL ENGINEERING

ME 4933-WELDING ENGINEERING-I
(Technical Elective-A, 3-Credit Point,
2-Design -Point Credit, a C-I course)

Fall 2012

("United States Nuclear Regulatory Commission (NRC) Sponsored Course" on Welding and Nondestructive Evaluation Curriculum)

instructor: Dr. M.A. Wahab
Associate Professor
Website: http://appI003.lsu.edu/mech/mechweb.nsf/index
Invited Lectures by Dr. Ayman Okeil and Dr. Su-Seng Pang
E-mail: wahab@me.lsu.edu
Office: Patrick F. Taylor Hall – 1419-E
Office Hours: Tuesdays & Thursdays: 9:50-11:50 am; or through appointments
Lectures & Venue: Tuesdays & Thursdays, 12:00 to 01:20 pm,
Patrick F. Taylor Hall - 3129
Office Telephone: (225) 578-5823
TA: TBA

GENERAL COURSE STATEMENT:

4933 Welding Engineering (3) Prereq: ME 2723 (Mat. Engg.), ME 2733 (Mat. Engg.), ME 3633 (Manufacturing), and proficiency in English as required by the College of Engineering; 3hrs.Lectures/Lab per week.

This course covers: (i) fundamentals of welding and joining and (ii) an introduction to Nondestructive Evaluation of welded structures, and (iii) deals with the basics of welding technology and welded structures. This covers details of physics of welding, welding metallurgy, mechanical, and non-destructive testing of welded structures. Weld flaws; welding processes (GMAW, GTAW, Oxy-Gas Welding, and Shielded Metal Arc Welding), welding heat sources, heat transfer in welding, case studies of failures and fatigue aspects of welded structures, welding safety issues; and special emphasis is placed on welding in nuclear structures and non-destructive evaluations of welded structures. The course comprises of two welding labs and One NDE Lab.

COURSE GOALS/OBJECTIVES:

This course helps students to utilize the fundamental principles of engineering science, weld design, and mathematics; and will help develop aptitude for the underlying social, ethical, and aesthetic aspects of engineering; gain knowledge of the fundamental theory of the processes, engineering design, materials, and testing of welds; able to apply their fundamental welding engineering knowledge in an integrated fashion to solve diverse practical problems in the welding and joining, and nondestructive evaluations of metals; help develop effective communication skills in written, oral, and informal forms.

The course ME 4933 - Welding Engineering-I meets the following ABET requirements (a, d, e, and g inclusive):

- Ability to apply knowledge of math, engineering, and science (a);
- Ability to function on multi-disciplinary teams (d);
- Ability to identify, formulate, and solve engineering problems (e);
- Ability to communicate effectively (g).

**Prerequisites:** ME 2723 (Materials for Engg.), ME 2733 (Materials for Engg.), ME 3633 (Manufacturing Engg.); and proficiency in English language as required by the College of Engineering. Knowledge of Strength of Materials preferred.

**Textbook:** No fixed textbooks are allocated for this course but references will be used extensively, and lecture notes will be posted in Moodle.

**References:**

**Supplemental Materials:** Handout, Lecture Notes, Reference journal/conference publications will be given out and will also be posted in Moodle.

**Computer Usage:** ME-Dept has the facilities for ANSYS FEA, Excel, MatLab, etc.

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<tr>
<th>Grading and Evaluation</th>
<th>Marks</th>
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<td>Three-Labs (10%) and Homework/Reports (weekly/biweekly-set homework will be assigned -(10%))</td>
<td>20%</td>
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<td>First Term Tests: (First Test-10%)</td>
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<td>Second Term Test: (Second Test- 10%)</td>
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<td>Interim Project Report (02%) + In-class Powerpoint presentation (03%)</td>
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<td>Semester-Project (Seminar Powerpoint Presentation (5%) &amp; Final Semester Project Report (10%)</td>
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<td>Final Examination (Written-Two Hours Closed Book, Closed Notes)</td>
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<td><strong>Total Marks</strong></td>
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**Grading Policy:** \[ 0 \leq F < 60 \leq D < 70 \leq C < 80 \leq B < 90 \leq A \leq 100. \]

**Grievance Policy:** Must be discussed with the Instructor for any Re-Evaluations

**Submissions Rules of Soft copies:** All homework, interim, and final project reports, Seminar Powerpoints must be submitted as Soft copies (.pdf or .word documents) through E-mails. Students must keep copies of their submission for their own reference.

**Feedbacks will be provided on Interim Semester- Projects towards their final submissions.**

**General Remarks:** Read College of Engineering Policy on Plagiarism.

**GROUPS:** Students must form their own groups not exceeding 5-students per group for project work. Instructor will have the right to upload students’ submissions, including their homework, project reports etc. in Moodle for other students’ reference as additional information. Students are allowed to circulate
TENTATIVE LECTURE TOPICS:

1. Introduction to Welding Processes
   - Historical background
   - Fusion Welding processes
   - Fundamentals of Arc processes
   - Welding terminology

2. Consequences of Welding
   - Potential service failures
   - Brittle fractures, fatigue, Corrosion
   - Imperfections in welds, Welding distortion
   - Significance of welding for the designer
   - Weld-quality requirements and testing of welds

3. Flux-Shielded Welding Processes
   - Manual Metal Arc Welding (Shielded Metal Arc Welding)
   - Flux-Cored Arc Welding
   - Consumables standards

4. Gas-Shielded & Other Welding Processes
   - Gas Tungsten Arc (GTA) welding
   - Gas Metal Arc (GMA) Welding
   - Oxy-Acetylene Gas Welding and Cutting
   - Welding Process Development

5. Metallurgy of Steels and Alloying and Heat Treatment of Steels
   - Basic metallurgy of plain carbon steel
   - Equilibrium decomposition of Austenite
   - Non-equilibrium transformation of austenite
   - Use transformation diagrams, TTT and CCT diagrams
   - Effects of alloying elements in steels
   - Heat treatments of alloy steels for welding

6. Welding Metallurgy of Steels
   - Complex metallurgical phenomena in fusion welding
   - Solidification of the weld-pool
   - Alloy effects of weld metal
   - Heat-affected-zone (HAZ), Carbon Equivalent
   - Post-weld problems
   - Weld metal hydrogen-induced cracking

7. Welding of Aluminum Alloys
   - Aluminum welding
   - Weldability considerations
   - Weld porosity, corrosion resistance
   - Weld imperfections, failures
8. Testing and Assessment of Welds & Nondestructive Evaluations (NDE)
   - Testing and assessment needed in welded structures
   - Quality of welds
   - Destructive testing, tensile tests, bend tests, shear tests
   - Fracture resistance tests, Drop-weight tests
   - Fracture toughness tests
   - Hardness and metallographic tests

9. Non Destructive Evaluations of Welded Structures
   - Introduction to Nondestructive testing
   - General philosophy of NDT
   - Visual Inspections
   - Ultrasonic methods
   - Radiographic methods
   - Liquid Penetrant method
   - Brief introduction of other NDT methods

10. Design for Welding and Fatigue Strength of Welded Structures
    - Role of materials selections
    - Design of Structural members
    - Selection of Welded- joint details
    - Connections and structures, Design criteria
    - Fatigue Strength of Welded Structures

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**ME 4933: WELDING ENGINEERING: Fall 2012**

**Tentative Program**

Instructor: DR. M. A. WAHAB—Patrick F. Taylor Hall- 2522;
Class Schedule: T/TH 12:00 - 1:20 pm; Lecture Room: PATRICK F. TAYLOR- 3129

<table>
<thead>
<tr>
<th>Week</th>
<th>Tentative Topics—may change due to Lab organization</th>
<th>Remarks</th>
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<tbody>
<tr>
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<td>Lec., Date &amp; Month</td>
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<tr>
<td>1</td>
<td>L1- 08/20/12 Introduction to Welding Processes, Course outlines</td>
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<td>L2-</td>
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<td>2</td>
<td>L3- Introduction to Welding Processes</td>
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<td>L5- Science of Metals for Welding</td>
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<td>L6- Gas-Shielded &amp; Other Welding Processes</td>
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<td>L7- Gas-Shielded &amp; Other Welding Processes</td>
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<td>L8-</td>
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<td>5</td>
<td>L9- Lab-1 Welding</td>
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<td>L10- Metallurgy of Steels and Alloying and Heat Treatment of Steels</td>
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<td>L11- Midterm Test #1</td>
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<td>7</td>
<td>L12- Welding Metallurgy of Steels</td>
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<td>L13- Lab-2 Welding</td>
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<td>L14- Welding Processes Capabilities</td>
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</tbody>
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**HW 1**

**Group Project Outline Due**

**HW2**

**HW3**

**TEST 1**

**Hw4**
| L15- | Metallurgy of Steels  
**Mid Semester Grades Due 9:00 am**  
L16- | FALL HOLIDAY |
| L17- | Alloying and Heat Treatment of Steels  
Metallurgy of Steels  
Welding of Aluminum Alloys  
Interim Project  
Brief Presentation & Report due |
| L18- | Alloying and Heat Treatment of Steels  
HW5 |
| L19- | Welding Metallurgy of Steels  
Fatigue Strength of Welded Structures |
| L20- | Term Test #2  
Test 2 |
| L21- | Testing and Assessment of Welds &  
Nondestructive Evaluations (NDE)  
Fatigue Strength of Welded Structures  
HW6 |
| L22- | NDT Lecture |
| L24- | NDT |
| L25- | Design for Welding and Fatigue Strength of  
Welded Structures  
HW7 |
| L26- | Lab NDT-Lab: Demonstration & Evaluation Lab work |
| L27- | Lab NDT-Lab: Evaluation Lab work |
| L28- | Design for Welding and Fatigue Strength of  
Welded Structures  
Group Project Final Report Due |
| L29- | THANKSGIVING |
| L30- | Project Final Seminar (G1, G2, & G3)  
Group Project  
Seminar for G1, 2, & 3, SET  
Group Project Seminars for G4, G5 & G6. |
| L31- | Project Final Seminar (G4, G5, & G6)  
Brief Review Session  
CLASSES ENDS: December 01 |
| 06 Dec | FINAL EXAM: (5:30 pm to 7:30 pm, Room-Patrick F. Taylor Hall - 3129)  
Final Exam |

Available help for Welding Lab-I:
Mr. Charles Smith will be available to help you with the weld specimens during the following tentative timetable. You need to coordinate your time schedule so that Charles is there to help your group, if you need his help. It is expected that you all had welding training before during your ME 3633 "Manufacturing" course, but since safety issues are very important, you will still need to refresh your skill on Welding.

Mr. Charles Smith tentative availability: TBA

ME 4933 welding engineering/maw/fall 2010
GENERAL CLASS POLICY:

(1) Students are advised to keep all materials and handouts in an organized folder and to complete all homework problems/reports etc. Students must study handout materials as well as reference materials to broaden their understanding in welding engineering; there may be questions from materials that may not have been covered during the lectures but questions for exam may be set from these materials. Students' work may be posted in Moodle for other students' reference and additional information.

(2) Copying homework from others may be construed as academic dishonesty and will be dealt as per College of Engineering Plagiarism policy. No late submission of Homework will be accepted without any genuine reason. Students are encouraged to distribute their marked design solutions among the various groups and discuss their solutions among themselves to gain further understanding by group-learning, especially on project related issues.

(3) Term test dates are scheduled in the Course schedule. No late-sitting in tests will be allowed in normal circumstances, unless specific reason arises on that day.

(4) The instructor reserves the right to change any test pattern, test dates, homework, and class-rules, with prior in-class announcement. Therefore, it is automatically understood that students are required to attend all lectures/tutorial/lab sessions. It is the students' responsibility to keep track of the scheduled dates for the tests, any changes in these dates, materials covered in the class, and all announcements made during the lecture hours. Students are advised to follow the attendance policy carefully. Excuses must be documented and instructors must be notified through e-mails to record absents.

(5) Calculators: Programmable calculators are permitted during the tests and final Exam.

ME 4933: Welding Engineering RESEARCH PAPER- SEMINAR PRESENTATION and SUBMISSION OF POWERPOINTS AND PROJECT REPORTS

Topic and Student Groups:
Undergraduate student may choose to work within a group not exceeding up to 5-students and graduate students may form groups of 2 students either on a topic which may be relevant to his/her own area of research or which could be from any areas related to industrial welding problems, non-destructive evaluations of welded structures, fracture mechanics, and fatigue of welded structures, corrosion, creep of welded structures, weld design or weld-repair for pressure vessels, ship fabrications or nuclear structures or any other industrially relevant topics that deals with welding and non-destructive evaluations associated problems.

Due Date:
The written paper is due on the date shown in the Course Schedule. The maximum length should not exceed 20,000 words (main body of the paper approximately 40-typed pages, 12-font size, single-sided, single-spaced, (Arial-11 or New Times Roman-12 font sizes). Appendices are not counted within the page-limit.

Seminar:
The technical part of the paper must be presented during "in-class" seminar on the date shown in the Course Schedule. The presentation will be for 15 minutes (for intern)- and 15 minutes for final reports and 5 minutes allocated for discussions, questions, and comments. The Seminar presentation must be a "Power-Point" presentation. The seminar Powerpoints and final project reports must be submitted electronically to the instructor on or before the deadline.

Format:
Standard Journal format must be adopted for submission to a Journal or for a conference. Example can be taken i.e. from any suitable Journal for the topic researched. Journal/Conference submission is encouraged prior to "In-Class" presentation.

Authorship Rules:
If the research has been undertaken by the student and under general guidance of the student's Major supervisor and/or the Course Instructor, their names should be included as "Authors;" students' own name(s) must be included as the First Author(s).

Acknowledgements:
Appropriate acknowledgment must be made to recognize help received from individuals or organizations.

General Format of the Paper:
The paper must contain an Abstract (written in present tense-around 300 words), brief Introduction to the problem, literature review related to the topic, theoretical analysis or experimental research, numerical modeling and description of methodologies, results and conclusions, acknowledgements, Appendix-I (References), Appendix-II (Notations if any). The paper must be complete in all respects.

Reference Citation:
Reference citation must be in the format of author's last name and year of publication and those should be organized in an alphabetical order in the Reference Section of the paper.

Bi-Weekly discussion with Course Instructor:
Students are required to maintain relevant discussion on a bi-weekly basis with the Instructor, during consulting/ outside lecture hours. Students may also discuss with the Major Supervisor to seek his/her help in the progress of the research.

Maintain Design Logbook:
"Students should document their design processes in a project-specific Design notebook. This Design notebook is meant for informal writing, and will not be graded in this course, but is, nevertheless, an important part of an effective design process and students will require bringing them to the Course Instructor every time they come to have discussions with him."

Final Project Report:
Report should contain a(i) hardcopy of the paper, (ii) a CD version of the paper plus Seminar materials which should include the copy of the paper and the Seminar Power point, a (iii) Softcopy (.doc/.docx version) of the Seminar material. (iii) Information to support that the paper has been submitted to the appropriate journal.
Reference Format

Note: Authors must reference the original source of a work, not a Secondary source. All references must be completed prior to submission as a possible journal manuscript. The following list gives examples of commonly lacking information:

1. Names of publishers (for books and proceedings) and their locations. Proceedings require the same information as other books.

2. Inclusive page numbers or (for books) chapters.

3. Complete journal names (no abbreviations unless part of actual title).

4. Journal volume and issue numbers (or months).

5. Locations of companies, universities, and societies in reports and papers.

6. The DOI (Digital Object Identifier) should be incorporated in every reference for which it is available. A DOI is an identifier of intellectual property entities on digital networks. It provides a system for persistent identification and interoperable exchange of managed information. The use of DOIs as identifiers makes the management of intellectual property in a network environment easy and convenient and allows the construction of automated services and transactions. For more information on DOIs and their value, visit www.doi.org or www.crcssref.org.

7. For all references: Spell out everything except AIAA, NASA, NACA, AGARD, and NATO; months may be abbreviated. All references must be numbered and cited in numerical order in the text. Classified or export-restricted references, personal/private communications, and personal Web sites are not permitted. A reference that is not reliably available is of no use to readers. List all authors.

Follow examples for Referencing format:

Chapter in a Book:

Journal Article:

doi: xx.xxxx/xxxx

or (if published only electronically and not yet available in a particular journal issue):

doi: xx.xxxx/x.xxxxx

Proceedings/Transactions Articles:

Company Report:

NASA Report:

Meeting Paper:

AIAA Book Series:

Electronic Media:

Anonymous Report:
[Note: Include month if available.]

Communication-intensive (C-I) courses (CxC approved course):
This is a certified Communication-intensive (C-I) course which meets all of the requirements set forth by LSU’s Communication Across the Curriculum (CxC) program, including:
- Instruction and assignments emphasizing informal and formal [mode 1] and [mode 2];
- Teaching of discipline-specific communication techniques;
- Use of draft-feedback-revision process for learning (design logbook);
- Practice of ethical and professional work standards;
- 40% of the course grade rooted in communication-based work; and
- A student/faculty ratio no greater than 35:1.
"LSU Distinguished Communicator": Students interested in pursuing the "LSU Distinguished Communicator" certification may use this C-I course for credit. For more information about this student recognition program, visit [www.cxc.lsu.edu](http://www.cxc.lsu.edu).

**LSU's Distinguished Communicators:**
This program, the first of its kind nationally, recognizes students who meet the highest standards for communication. Students take 12 hours of Communication-intensive classes, maintaining a minimum 3.0 GPA. Students must also demonstrate their communication skills in a digital portfolio and in leadership activities on and off campus. Those who complete the program receive a special designation on their LSU transcripts.

**CxC- Studio Staff Members:**
Warren Hull, P.E., Engineering Communication Studio Coordinator, E-mail: whull@lsu.edu; Tel: 225 578-7994;
Boz Bowles, M.P.A., Technical Communication Instructor, E-mail: dbowles@lsu.edu; Tel: 225 578-9952;

**LOG SHEET FOR ENROLLMENT: Fall 2012**
PLEASE TRY TO FILL-OUT THE LIST BEFORE YOU ATTEND THE FIRST LECTURE

<table>
<thead>
<tr>
<th>No</th>
<th>LASTNAME</th>
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REQUEST FOR ADDITION OF NEW COURSE

Department: Agricultural Economics and Agribusiness

College: Agriculture

PROPOSED COURSE
Rubric & No.: AGEC 4243
Title: Food Products Marketing

COURSE CREDIT
Graduate Credit: X YES  NO
Semester Hours of Credit: 3
(FOR COMBINATION COURSE TYPES ONLY: Lecture Hrs. Lab/Sem/Rec Hrs.
If course may be repeated for credit (i.e. special topics), course may be taken for a max. of credit hours.
Credit will not be given for this course and:

GRADING
Final Exam: X YES  NO  Grading System: X Letter Grade  Pass/Fail
(Attach justification if the proposed course will not hold a final exam during examination week.)

COURSE TYPE
(Indicate hours in the appropriate course type)

Maximum enrollment per section: 40

CATALOG TEXT
(Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

4243 Food Products Marketing (3) Prereq.: grade of “C” or above in AGEC 2003 and ECON 2030, or ECON 2000 and 2010; and completion of MKT 3401. An overview of the food marketing system; marketing, management, and economic principles as applied to branded food products, and the formulation and implantation of marketing plans for branded food products.

BUDGET IMPACT

IF THIS COURSE IS APPROVED, WILL ADDITIONAL STAFF BE NEEDED? X YES  NO
WILL ADDITIONAL SPACE, EQUIPMENT, SPECIAL LIBRARY MATERIALS OR OTHER MAJOR EXPENSE BE INVOLVED? X YES  NO

ATTACHMENTS
ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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 6/27/2012
Department Chair's Signature 8/27/12
Graduate Dean's Signature (for 4000 level and above) 10-2-12

College Faculty Approval 9/1/12
College Dean's Signature 9/26/12
Chair, FS C&C Committee 10/23/12

Academic Affairs Approval 9/26/12

Contact:

College Contact: Jennifer Neal
Email: jsherw1@lsu.edu
Justification:

The addition of this course is a component of a larger change proposed by the Department of Agricultural Economics and Agribusiness. A concentration in Agribusiness Management exists, but is a very modest extension of the basic curriculum. This concentration will be dropped to facilitate the creation of a new concentration – Food Industry Management – that is submitted concurrently.

The new concentration will prepare students for the extended concept of the Food Industry. The agribusiness and food sectors of the U.S. economy are constantly evolving. Agricultural production of raw products continues to be important. Farm output increasingly is purchased, traded and transported by a few very large companies, including Cargill, ADM, Dreyfus and Bunge. However, most of the value of the United States food economy is associated with marketing food products. Almost 70% of the cost of food is associated with value-adding marketing activities that add utility by transforming the raw agricultural commodities into foodstuffs and feedstuffs and then into food and feed. Value-adding occurs beyond the farm gate. It is critical that agricultural business majors have complete understanding of the relationships between these value-adding utilities and drivers of the demand for food products, as well as a command of the marketing principles used by food manufacturers, distributors, and retailers in meeting this demand.

This new course will provide broader exposure to the food industry beyond the current curricula in Agricultural Business and with more detail about marketing of food products than in business courses, and will be a required course in the new concentration.

This course will not duplicate other courses offered in either the Agricultural Business curriculum or in the College of Business.
AGEC 4243
FOOD PRODUCTS MARKETING
SPRING SEMESTER

GENERAL INFORMATION

INSTRUCTOR:                     Dr. R. Wes Harrison, Professor
                                Dept. of Ag. Economics & Agribusiness
                                Room 230, Martin D. Woodin Hall

OFFICE HOURS:                   By appointment.
                                Tel: 225-578-2727
                                e-mail: rwharri@lsu.edu

PREREQUISITES:

Prerequisites for the course are a grade of “C” or above in AGEC 2003 and ECON 2030 or
ECON 2000 and ECON 2010; and completion of MKT 3401.

COURSE DESCRIPTION:

AGEC 4243 Food Products Marketing (3). An overview of the food marketing system;
marketing, management, and economic principles are applied to branded food products, and
the formulation and implementation of marketing plans for branded food products.

COURSE OBJECTIVES:

Upon completion of the course, you should:

1) be able to describe the various organizations that comprise the global agri-food
marketing system, and the function that each organization performs in the system,

2) be able to use basic marketing principles to analyze and develop marketing strategies for
food products, and

3) be able to write a marketing plan for a branded food product.
GRADING POLICY

The grade obtained in the course will be determined by your performance on class participation, two exams and a group project. The relative weights are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>% of Grade</th>
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<tbody>
<tr>
<td>Class Participation</td>
<td>10</td>
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<tr>
<td>Two exams 100 pts each x 2 exams</td>
<td>40</td>
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<tr>
<td>Group Project</td>
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<tr>
<td>Written Report</td>
<td>20</td>
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<td>Presentation</td>
<td>5</td>
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<tr>
<td>Individual Grade</td>
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<td>Final</td>
<td>20</td>
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The final grading scale is as follows: 90-100=A; 80-89=B; 70-79=C; 60-69=D; and below 60=F.

IMPORTANT POLICIES AND PROCEDURES (please read these carefully)

(1) We will do graded in-class activities in this class. Some of the activities will be announced in advance, and will be a component of your group project. Missing these activities will affect the individual grade on your group project. Other activities will not be announced in advance, and these activities will serve as the basis for your class participation grade. You are expected to attend every class.

(2) There will only be one make-up exam given for students with an excused absence. You must provide documentation for the excused absence one week before or after the date of the exam you missed.

(3) You will be held to all university policies regarding academic misconduct, as described under section 5.1 of the LSU student handbook.

(4) Students taking the course for graduate credit will be required to complete an additional written assignment and answer additional questions on exams.
<table>
<thead>
<tr>
<th>Week</th>
<th>Course Item</th>
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<tbody>
<tr>
<td>1</td>
<td>Understanding the Food Marketing System Food Marketing</td>
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<td>- Activities and Philosophy, Food Manufacturing, Food Wholesaling, Food Retailing, Food Service</td>
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<td>2</td>
<td>Food Consumption and Buying Behavior:</td>
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<td></td>
<td>- Food Consumption and Changes in Food Consumption, Food-Buying Behavior, Effects of Demographics on Food Buying Behavior</td>
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<td>3</td>
<td>Consumer Concerns about Food Products</td>
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<tr>
<td></td>
<td>- Health &amp; Nutrition, Food Safety, Consumers' Product Concerns, Food Marketing Ethics</td>
</tr>
<tr>
<td>4</td>
<td>Structure of the Global Food System</td>
</tr>
<tr>
<td></td>
<td>- Biological Influences on Channels of Distribution, Functions of Market Intermediaries</td>
</tr>
<tr>
<td>5</td>
<td>Selecting and Researching Target Markets</td>
</tr>
<tr>
<td></td>
<td>- Market Segmentation, Market Segmentation Strategies,</td>
</tr>
<tr>
<td>6</td>
<td>Selecting and Researching Target Markets</td>
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<tr>
<td></td>
<td>- Market Research for Market Segments, Primary Market Research</td>
</tr>
<tr>
<td>7</td>
<td>Selecting and Researching Target Markets</td>
</tr>
<tr>
<td></td>
<td>- Product Positioning in Market Segments</td>
</tr>
<tr>
<td>8</td>
<td>Food-Product Management and Development</td>
</tr>
<tr>
<td></td>
<td>- What is a Food Product, The Total Food Product, Brand Strategies</td>
</tr>
<tr>
<td>9</td>
<td>Food-Product Management and Development</td>
</tr>
<tr>
<td></td>
<td>- Product Life Cycle, Product Management, New Product Development</td>
</tr>
<tr>
<td>10</td>
<td>Promotion of Food Products</td>
</tr>
<tr>
<td></td>
<td>- Promotion in Grocery Distribution, The Management of Advertising</td>
</tr>
<tr>
<td>11</td>
<td>Promotion of Food Products</td>
</tr>
<tr>
<td></td>
<td>- Personal Selling, Commodity Promotion</td>
</tr>
<tr>
<td>12</td>
<td>Pricing of Branded Food Products</td>
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<tr>
<td></td>
<td>- Pricing and the Factors that Affect it</td>
</tr>
<tr>
<td>13</td>
<td>Pricing of Branded Food Products</td>
</tr>
<tr>
<td></td>
<td>- Price Setting</td>
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<tr>
<td>14</td>
<td>Pricing of Branded Food Products</td>
</tr>
<tr>
<td></td>
<td>- Pricing by Stage of the Food System</td>
</tr>
</tbody>
</table>
REQUEST FOR ADDITION OF NEW COURSE

Department: Mechanical & Industrial Engineering
College: Engineering
Date: 9/20/12

PROPOSED COURSE
Short Title: SIM METH FOR ME
Rubric & No.: ME 2543 Title: Simulation Methods for Mechanical Engineers

COURSE CREDIT
Graduate Credit: ___ YES ___ NO
Semester Hours of Credit: 3 (For combination course types only: Lecture Hrs. Lab/Sem/Rec Hrs. If course may be repeated for credit (i.e. special topics), course may be taken for a max. of ___ credit hours.
Credit will not be given for this course and:

GRADING
Final Exam: ___ YES ___ NO Grading System: ___ Letter Grade ___ Pass/Fali

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

COURSE TYPE
(Indicate hours in the appropriate course type)

/ LEC/REC / LEC/SEM / LEC / LAB / LEC/LAB / SEM / CLIN/PRACT / RES/IND

Maximum enrollment per section: 100 (use integer, e.g. 25 not 20-30)

CATALOG TEXT
(Concise catalog statement exactly as you wish it to appear in the LSU General Catalog)

2543 Simulation Methods for Mechanical Engineers (3) Prereq.: credit or registration in MATH 2090. Computer-based problem solving techniques for mechanical engineering; numeric linear algebra and solution of ordinary differential equations; use of computers in simulations of mechanical engineering systems.

BUDGET IMPACT
If this course is approved, will additional staff be needed? ___ YES ___ NO
Will additional space, equipment, special library materials or other major expense be involved? ___ YES ___ NO
(If answer to either question above is 'yes,' attach explanation.)

Academic Affairs Approval:

ATTACHMENTS
ATTACH THE FOLLOWING TO YOUR PROPOSAL.

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. 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 9/24/12

Department Chair's Signature 9/25/12

College Faculty Approval

College Dean's Signature 10/10/12

Chair, FS C&C Committee 10/10/12

College Contact: ________________________________ (Please print name)

College Contact E-mail: ________________________________

Academic Affairs Approval 10/11/12
JUSTIFICATION

Mechanical Engineering third and fourth year courses require the use of computational tools to solve mechanical design and analysis problems. We previously had a course in semester two, CSC/ME 2533, but this course was focused on MATLAB instead of numerical methods and algorithms. Its prerequisite course was MATH 1550. The proposed course is intended to be taken at the same time as MATH 2090 so that it can cover numerical methods for solving linear algebra problems and ordinary differential equations. These methods are later required in third and fourth year courses ME 3603, 3143, 3834, 4133, 4433, 4183, 4243, and 4202.

This course has been design to meet a deficiency in the use of computer methods to solve engineering problems that is apparent in ME students entering the junior year. There is no mechanism for teaching a 2000 level course as a generic advanced topics course as it will not qualify as a technical elective and therefore no incentive for a student to take the course if offered. Therefore it will not be offered until it is approved and required for our students.

The course consists of 3 hours of science/math.
ME 2543: Simulation Methods for Mechanical Engineers

Catalog Description:
ME 2543: Simulation Methods for Mechanical Engineering (3) Co-req: MATH 2090. 2 hrs lecture, 1 hr lab. Computer-based problem solving techniques for mechanical engineering; numeric linear algebra and solution of ordinary differential equations; use of computers in simulation of mechanical engineering systems.

Textbooks and References:

Pre- and Co-Requisite by Topic:
- Calculus, trigonometry, linear algebra, and differential equations.

Course Objectives:
Provide an introduction to:
1. Structured programming for the simulation of mechanical engineering systems.
2. The usage of MATLAB as a programming tool.
These tools will be used throughout the junior- and senior-level mechanical engineering curriculum.

Topics:
The course will be split into three parts. In the first 7 weeks of the class, an introduction to computing will be provided, including the following topics:
1. Program design, logic, and documentation.
2. Syntax
3. Structured programming
4. Data structures
5. Debugging and editing
6. Truncation
7. Data output and plotting of scientific information.

In the next 6 weeks, numeric approaches to the following tasks will be discussed, and implemented:
1. Root finding
2. Curve fitting and interpolation
3. Modeling and statistical description of data
4. Numeric integration and differentiation
5. Solution of ordinary differential equations
6. Minimization or maximization of functions
7. Matrix multiplication and inversion

In the final 2 weeks, the use of existing toolboxes and functions to solve more complex problems will be covered.

Relationship of Course to Program Objectives:
This required course most closely addresses outcome:
a) Ability to apply knowledge of mathematics, science, and engineering
k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Assignments, Projects, and Computer Usage:
All homework and projects will require programming in MATLAB.

Assessment and Grading:
Homework, 5-10 Projects 50
In Class Examinations (2) 30
Final Exam 20

A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (59% and below).

Estimated ABET Category Contents:
Mathematics & Basic Science: 3 credits or 100%
Engineering Science: 0 credits
Engineering Design: 0 credits

Prepared by: Michael Martin, Dorel Moldovan, and Marcio de Queiroz Date: 9/6/12.
Approximate schedule for Simulation Methods for Mechanical Engineers

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Program design, logic, and documentation.</td>
</tr>
<tr>
<td>2-3</td>
<td>Syntax, Debugging and editing</td>
</tr>
<tr>
<td>4-5</td>
<td>Structured programming</td>
</tr>
<tr>
<td>6</td>
<td>Data structures, truncation</td>
</tr>
<tr>
<td>7</td>
<td>Data output and plotting of scientific information.</td>
</tr>
<tr>
<td>8</td>
<td>Root finding, Curve fitting and interpolation</td>
</tr>
<tr>
<td>9</td>
<td>Modeling and statistical description of data</td>
</tr>
<tr>
<td>10</td>
<td>Curve fitting and interpolation</td>
</tr>
<tr>
<td>11</td>
<td>Numeric integration and differentiation</td>
</tr>
<tr>
<td>12</td>
<td>Solution of ordinary differential equations</td>
</tr>
<tr>
<td>13</td>
<td>Minimization or maximization of functions</td>
</tr>
<tr>
<td>14</td>
<td>Use of toolboxes</td>
</tr>
</tbody>
</table>
Request for CHANGING an Existing Course

Department: English  
Course Rubric and #: ENGL 7070, 7071, 7072  
College: H&SS  
Date: 10/15/12

Present Course Description
Title: 7070, 7071, 7072 American Literature I, II, III
Semester Hours of Credit: 3, 3, 3

If combination course type, # hrs. of credit for lecture: lab/sem __ /rec: __  
Repeat Credit Max (if repeatable) X
Graduate Credit? Yes: ___ No: ___
Credit will not be given for this course and: ____________

Contact Hours Per Week: (Indicate hours in appropriate course type)
LEC ___ LAB ___ SEM 3 ___ REC ___ RES/ IND ___ CLIN/ PRACT ___
Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail ___

Course Description:  
7070, 7071, 7072 American Literature I, II, III (3,3,3) (7070) Survey of American poetry and prose in the 17th and 18th centuries; (7071) the 19th century; and (7072) the 20th century.

Proposed Course Description
Title: 7072 American Literature (3)
Semester Hours of Credit: 3

If combination course type, # hrs. of credit for lecture: lab/sem __ /rec: __  
Repeat Credit Max (if repeatable) 9 X
Graduate Credit? Yes: ___ No: ___
Credit will not be given for this course and: ____________

Contact Hours Per Week: (Indicate hours in appropriate course type)
LEC ___ LAB ___ SEM 3 ___ REC ___ RES/ IND ___ CLIN/ PRACT ___
Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail ___

Course Description:  
7072 American Literature (3) Survey of American poetry and prose in the 17th and 18th centuries, the 19th century, or the 20th and 21st centuries. May be taken for a max. of 9 sem. hrs. of credit when periods vary.

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

Has this change been discussed and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)
Is this course included in any curricula, concentrations, or minors? Yes ( ) No (x)
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.

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

Approvals:
Department Faculty Approval Date: 10/12/12  
Department Chair's Signature: 10-16-12  
Graduate Dean's Signature: 10-29-12  
College Contact:  
College Contact E-mail:  
College Faculty Approval Date: 10-24-12  
College Dean's Signature: 10-30-12  
Chair, FS C & C Committee:  
Academic Affairs Approval: 11/1/12
ENGL 7070 has been made inactive and ENGL 7071 has been cancelled, so we must revise the ENGL 7072 catalog course description, since it is currently combined with the other two in one description of the three courses, American Literature I, II, and III.

At the same time, we propose changing 7072 so that it will provide flexibility in meeting student needs. This proposal allows us to offer 7072 as a survey of any one of the three periods covered in the current series of 7070, 7071, and 7072 (and acknowledges the recent arrival of the 21st century in the third period). It also allows us to grant up to 9 hours of credit under this course number as periods of study vary, as determined by the Director of Graduate Studies in English. We expect such surveys to be offered more often than they have been in the last several years, for at least two reasons:

- We are conducting two searches this year in pre-1900 specialties in American literature that will make such course offerings possible.
- We are beginning to attract more MA and PhD students interested in community college teaching. These students often prefer survey courses to fit their training.
**Request for CHANGING an Existing Course**

**Department** Geology and Geophysics  
**Course Title and #** GEOL4165  
**College** Science  
**Date** Sept 2012

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**Present Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Subsurface Geology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
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<tr>
<td>If combination course type, # hrs. of credit for lecture</td>
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<tr>
<td>lab/sem</td>
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</tr>
<tr>
<td>rec:</td>
<td>1.0</td>
</tr>
<tr>
<td>Repeat Credit Max (if repeatable)</td>
<td>X</td>
</tr>
</tbody>
</table>
| Graduate Credit? | Yes: X  
No: |
| Credit will not be given for this course and: | |
| Contact Hours Per Week: (Indicate hours in appropriate course type.) | |
| LEC | 2 |
| LAB | 3 |
| SEM | 1 |
| REC | 1 |
| CLINIC/PRACT | |
| Total Weekly Contact Hours: | 5 |
| Grading System: Letter Grade X Pass/Fail |

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**Proposed Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Subsurface Geology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
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</tr>
<tr>
<td>If combination course type, # hrs. of credit for lecture</td>
<td>2.0</td>
</tr>
<tr>
<td>lab/sem</td>
<td>1.0</td>
</tr>
<tr>
<td>rec:</td>
<td>1.0</td>
</tr>
<tr>
<td>Repeat Credit Max (if repeatable)</td>
<td></td>
</tr>
</tbody>
</table>
| Graduate Credit? | Yes: X  
No: |
| Credit will not be given for this course and: | |
| Contact Hours Per Week: (Indicate hours in appropriate course type.) | |
| LEC | 2 |
| LAB | 3 |
| SEM | 1 |
| REC | 1 |
| CLINIC/PRACT | |
| Total Weekly Contact Hours: | 5 |
| Grading System: Letter Grade X Pass/Fail |

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**Course Description:**

4165 Subsurface Geology (3) Prereq.: GEOL1001, 1003, 1601, 1602, PTE 4086 strongly recommended. 2 hrs lecture; 3 hrs lab. Principles and methods of exploration, analysis, and interpretation using borehole data, electric logs, and samples of rocks and fluids; construction of geological maps and sections showing sediment facies, geologic structure, geotemperature, fluid pressure and water salinity; analysis of fluid migration, oil and gas accumulation, and geothermal resources.

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**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 ( ) No ( )
- Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x)
- Is this course on the General Education list? Yes ( ) No (x)

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**Justification/Explanations:** Use separate sheet.

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

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**Approvals:**

**Department Faculty Approval Date** Sept 19 2012  
**Department Chair's Signature**  
**Date** Oct 10 2012

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**College Faculty Approval Date** 10/2/12

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**College Dean's Signature**  
**Date** 10/30/12

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**Chair, FS C & C Committee**  
**Date** 1/11/12

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**Academic Affairs Approval**  
**Date** 11/1/12
Justification of requested change

Changing the prerequisites will result in better prepared students taking the Geol4165. In addition, we are aligning the prerequisites of the Geol 4000-level courses to reflect knowledge gained in our 3000-level required courses. The current prerequisites for Geol4165 (1001, 1003, and 1601) are not in alignment with prerequisites for other 4000-level Geol courses (mostly 3000-level courses; in some cases prerequisites were 2000-level courses).
Kimberly G Kubicek

From: Carol Wicks
Sent: Tuesday, September 25, 2012 2:09 PM
To: Martha A Cedotal; Kimberly G Kubicek
Cc: John W Lynn
Subject: FW: Geol3200 and Geol4165

Martha and Kim,

The email from PETE agreeing to the changes to 3200 and 4165.

Thanks.

Carol Wicks

225-578-2692 (office)
225-223-2846 (cell)
Chair and Frank W. and Patricia Harrison Family Professor
Department of Geology and Geophysics
E235 Howe-Russell-Kniffen Geoscience Complex
College of Science
Louisiana State University
Baton Rouge LA 70803

From: Karsten E Thompson
Sent: Tuesday, September 25, 2012 1:57 PM
To: Carol Wicks
Cc: Stephen O Sears
Subject: RE: Geol3200 and Geol4165

Dear Carol,

This email is to confirm that the Petroleum Engineering faculty has discussed the proposed changes to GEOL 3200 and GEOL 4165 listed in your Sept 20 email, and that we are supportive of all the proposed changes.

Thank you for your continued efforts to accommodate the needs of PETE students.

Regards,

Karsten Thompson
Department Chair
Craft & Hawkins Dept Petroleum Engineering

From: Carol Wicks
Sent: Thursday, September 20, 2012 7:12 AM
To: Karsten E Thompson
Cc: Stephen O Sears
Subject: Geol3200 and Geol4165

Karsten,

The G&G faculty met yesterday and discussed changes to the geol3200 and to geol4165.
Geol3200 (3 credit hour course; form attached with complete justification listed)
Briefly -
We would like to remove the laboratory.
We would like to add one hour of lecture.
We would like to change the prerequisites to be geol1601 and geol1601.
As this course was designed for PETE majors, we need the input and approval from PETE faculty to make these changes.
Please send me an email confirming that PETE agrees with the changes listed above.

Geol4165 (3 credit hour course; form attached with complete justification listed)
Briefly -
We plan to change the prerequisites to Geol 3032 or Geol 3071 or Geol 3200 or PETE 3036.
As many PETE majors enroll in Geol4165, we would like the input and approval from the PETE faculty to make these changes.
Please send me an email confirming that PETE agrees with the changes listed above.

We would like to start these changes through the College and University approval process as soon as we can.

Thank you for your support and help as G&G makes these needed changes to its courses and works to support the needs of PETE majors.

Carol Wicks

225-578-2692 (office)
225-223-2846 (cell)
Chair and Frank W. and Patricia Harrison Family Professor
Department of Geology and Geophysics
E235 Howe-Russell-Kniffen Geoscience Complex
College of Science
Louisiana State University
Baton Rouge LA 70803
Request for CHANGING an Existing Course

Department: Geology and Geophysics
Course Title: Earth Materials for Petroleum Engineers
Course #: GEOL3200

Present Course Description

Title: Earth Materials for Petroleum Engineers
Semester Hours of Credit: 3.0

Proposed Course Description

Title: Earth Materials for Petroleum Engineers
Short Title: EARTH MATERIALS

Credit will not be given for this course and: Geol2081, Geol 3032, and Geol 3041
Credit will not be given for this course and: Geol2081, Geol 3032, and Geol 3041

Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC 3, LAB 3, SEM,,, REC, RES/IND, CLIN
Total Weekly Contact Hours: 6
Grading System: Letter Grade X Pass/Fail

Course Description:

3200 Earth Materials for Petroleum Engineers (3) Prereq.: GEOL 1001 or 1002, GEOL 1003, and GEOL1601: 2 hrs., lectures; 3 hrs. lab. Credit will not be given for this course and GEOL2081 or GEOL3032 or GEOL3041. May not be taken by geology majors for credit. Introduction to the classification, occurrence, and origin of rocks and rock forming minerals.

3200 Earth Materials for Petroleum Engineers (3) Prereq.: GEOL 1001 or 1002 and GEOL1601
Credit will not be given for this course and
GEOL2081 or GEOL3032 or GEOL3041. May not be taken by geology majors for credit. Introduction to the classification, occurrence, and origin of rocks and rock forming minerals.

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 ( ) No (x) 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.

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

APPROVALS:

Department Faculty Approval Date: Sept 19 2012
Carol M. Wicks
Department Chair’s Signature (Date)

Graduate Dean’s Signature (Date)

College Contact: (Please print name.)

College Contact E-mail:

College Faculty Approval Date: 10/14/12
K. Ernle (Chair) 10/11/12

College Dean’s Signature (Date)

Chair, FS C & C Committee (Date)

Academic Affairs Approval (Date)
Justification for Request: After teaching the course several times, we have found that the PETE students would benefit from a deeper conceptual understanding of the topics that are covered and that the knowledge gained by the students based on material covered in the laboratories did not sufficiently add to their understanding of geologic processes as related to petroleum engineering. Adding one hour of lecture will allow us to discuss the topics in greater depth. We also found that material covered in 3200 relied on a understanding of material from Physical Geology and Physical Geology Laboratory and not on the material covered in Historical Geology (1003). We are therefore removing an unnecessary prerequisite.
Proposed additions to lecture schedule with removal of laboratory:

Stratigraphy & Geologic Time

Text: BOGGS, Stratigraphy, some geophysics, and some basin analysis:
- Seismic, Sequence, and Magnetic Stratigraphy
- Biostratigraphy
- Chronostratigraphy and Geologic Time
- Basin Analysis, Tectonics, and Sedimentation

Geophysics section.

Text: Principles of Petroleum Development Geology, Robert C. Laudon, University of Missouri, Rolla

Proposed curriculum (no lab):
(red italics indicates new material and/or information)

Week 1: Introduction & Basic Mineralogy (Intro)
Week 2: Minerals
Week 3: Optical Mineralogy
Week 4: Igneous Rocks
Week 5: Sedimentary Rocks (Intro, Transport, Deposition)
Week 6: Sedimentary Rocks (Textures, Structures)
Week 7: Sedimentary Rocks (Siliciclastic; Carbonate)
Week 8: Sedimentary Rocks + Others, Diagenesis
Week 9: Metamorphic Rocks
Week 10: Seismic, Sequence, and Magnetic Stratigraphy — new
Week 11: Biostratigraphy — new
Week 12: Geologic Time & Chronostratigraphy — new
Week 13: Basin Analysis, Tectonics, & Sedimentation — expanded/new
Week 14: Formation Waters; Reflective Seismology
Week 15: Case Studies and Practical Applications — new
Week 16: Final Exams

Grades (would be based then on): 3 tests (45%) and a cumulative final exam (20%) from lecture materials; plus weekly in-class and homework assignments (35%).
Current curriculum: lecture + lab

Week 1: Introduction & Basic Mineralogy (Intro)
Week 2: Minerals
Week 3: Minerals & Optical Mineralogy (Intro)
Week 4: Optical Mineralogy
Week 5: Igneous Rocks
Week 6: Igneous Rocks & Sedimentary Rocks (Intro)
Week 7: Sedimentary Rocks - Transport, Deposition
Week 8: Sedimentary Rocks - Textures, Structures
Week 9: Sedimentary Rocks - Siliciclastic
Week 10: Sedimentary Rocks - Carbonate
Week 11: Sedimentary Rocks - Others, Diagenesis
Week 12: Metamorphic Rocks: Metamorphism v. Diagenesis; Classification
Week 13: Formation Waters; Reflective Seismology
Week 14: Stratigraphy & Basin Analysis
Week 15: Course Review
Week 16: Final Exams

Grades are based on 2 tests (30%) and a cumulative final exam (20%) from lecture materials; plus 10 labs (30%), several lab quizzes (10%), and 1 cumulative final (10%) from laboratory materials.
Kimberly G Kubicek

From: Carol Wicks
Sent: Tuesday, September 25, 2012 2:09 PM
To: Martha A Cedotal; Kimberly G Kubicek
Cc: John W Lynn
Subject: FW: Geol3200 and Geol4165

Martha and Kim,

The email from PETE agreeing to the changes to 3200 and 4165.

Thanks.

Carol Wicks

225-578-2692 (office)
225-223-2846 (cell)
Chair and Frank W. and Patricia Harrison Family Professor
Department of Geology and Geophysics
E235 Howe-Russell-Kniffin Geoscience Complex
College of Science
Louisiana State University
Baton Rouge LA 70803

From: Karsten E Thompson
Sent: Tuesday, September 25, 2012 1:57 PM
To: Carol Wicks
Cc: Stephen O Sears
Subject: RE: Geol3200 and Geol4165

Dear Carol,

This email is to confirm that the Petroleum Engineering faculty has discussed the proposed changes to GEOL 3200 and GEOL 4165 listed in your Sept 20 email, and that we are supportive of all the proposed changes.

Thank you for your continued efforts to accommodate the needs of PETE students.

Regards,

Karsten Thompson
Department Chair
Craft & Hawkins Dept Petroleum Engineering

From: Carol Wicks
Sent: Thursday, September 20, 2012 7:12 AM
To: Karsten E Thompson
Cc: Stephen O Sears
Subject: Geol3200 and Geol4165

Karsten,

The G&G faculty met yesterday and discussed changes to the geol3200 and to geol4165.
Geol3200 (3 credit hour course; form attached with complete justification listed)
Briefly -
We would like to remove the laboratory.
We would like to add one hour of lecture.
We would like to change the prerequisites to be geol1001 and geol1601.
As this course was designed for PETE majors, we need the input and approval from PETE faculty to make these changes.
Please send me an email confirming that PETE agrees with the changes listed above.

Geol4165 (3 credit hour course; form attached with complete justification listed)
Briefly -
We plan to change the prerequisites to Geol 3032 or Geol 3071 or Geol 3200 or PETE 3036.
As many PETE majors enroll in Geol4165, we would like the input and approval from the PETE faculty to make these changes.
Please send me an email confirming that PETE agrees with the changes listed above.

We would like to start these changes through the College and University approval process as soon as we can.

Thank you for your support and help as G&G makes these needed changes to its courses and works to support the needs of PETE majors.

Carol Wicks

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225-223-2846 (cell)
Chair and Frank W. and Patricia Harrison Family Professor
Department of Geology and Geophysics
E235 Howe-Russell-Kniffen Geoscience Complex
College of Science
Louisiana State University
Baton Rouge LA 70803
Request for CHANGING an Existing Course

Department: Sch. Plant, Env., and Soil Sci.  College: Agriculture  Date: 3/28/12

Present Course Description

Title: Advanced Plant Genetics

Semester Hours of Credit: 4 hrs

If combination course type, # hrs. of credit for:

lecture: 4 lab/sem rec: ____________

Repeat Credit Max (if repeatable): no: X

Graduate Credit?: Yes: ___ No: ___

Credit will not be given for this course and: ____________

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

LEC 3 LAB 4 SEM 10 REC 20 RES/IND 30 CLIN/PRACT 40

Total Weekly Contact Hours: 4

Grading System: Letter Grade: X Pass/Fail ___

Course Description:

Include course number, title, etc. exactly as it appears in the General Catalog:

7071 Advanced Plant Genetics (4) See HORT 7071.

Proposed Course Description

Title: Advanced Plant Genetics

Short Title: Advance Plant Genet

Semester Hours of Credit: 3 hrs

If combination course type, # hrs. of credit for:

lecture: 3 lab/sem rec: ____________

Repeat Credit Max (if repeatable): no: X

Graduate Credit?: Yes: ___ No: ___

Credit will not be given for this course and: ____________

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

LEC 3 LAB 4 SEM 10 REC 20 RES/IND 30 CLIN/PRACT 40

Total Weekly Contact Hours: 3

Grading System: Letter Grade: X Pass/Fail ___

Course Description:

Include course number, title, etc. exactly as it appears in the General Catalog:

7071 Advanced Plant Genetics (3) See HORT 7071.

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 (X)

Is this course included in any curricula, concentrations, or minors? Yes ( ) No ( ) X 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.

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

Approvals:

Department Faculty Approval Date: 3/1/12

Department Chair's Signature: (Date)

Graduate Dean's Signature: (Date)

College Contact: Jennifer Nes

College Contact E-mail: jshew1@elsu.edu

College Faculty Approval Date: 10/10/12

Kenneth P. Rooney (Date)

College Dean's Signature (Date)

Chair, FS C & C Committee: (Date)

Academic Affairs Approval: (Date)
Justification:

An increase in the number of plant breeding graduate students necessitates a reconfiguration of plant breeding courses. Students need more classroom instruction in critical areas. The majority of the course content will remain unchanged in HORT 7071. There will be additional material presented on gene expression. A section of the course on molecular biology is currently being covered in another class, AGRO 7080 Applied Plant Genomics, recently approved and taught for the first time.

This course is currently a 4 credit hour class with a change request to 3 credit hours. The course has been team taught with one half of the content relating to cytogenetics and gene expression. The second half of the class covers applied molecular biology techniques and data analysis of multi-location breeding trials. The course has evolved beyond its original class description. Thus, the data analysis and molecular biology technique lectures will be moved to other courses. This allows for a modest expansion of topics on gene expression and extrachromosomal inheritance, but to an extent which supplants the material previously presented in the course.

AGRI 2072 was cancelled in 1998, therefore, we have replaced the cancelled prerequisite with ANSC 2072: Introduction to Agricultural Genetics.
Request for CHANGING an Existing Course

**Department:** Sch. Plant, Env., and Soil Sci.  
**College:** Agriculture  
**Course Rubric and #:** HORT 7071  
**Date:** 3/28/12

### Present Course Description

**Title:** Advanced Plant Genetics

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### Proposed Course Description

**Title:** Advanced Plant Genetics

---

#### Semester Hours of Credit

- **Present:** 4 hrs  
- **Proposed:** 3 hrs

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**Contact Hours Per Week:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rec</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Credit will not be given for this course and:**

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**Grading System:**

- **Present:** Letter Grade  
- **Proposed:** Pass/Fail

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**Course Description:**

- **Present:** 7071 Advanced Plant Genetics (4)  
- **Proposed:** 7071 Advanced Plant Genetics (3)

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**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 (X)
- **Is this course included in any curricula, concentrations, or minors?** Yes ( ) No (X)
- **Is this course a prerequisite or prerequisite for other courses?** Yes ( ) No (X)
- **Is this course on the General Education list?** Yes ( ) No (X)

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**Justification/Explanation:** Use separate sheet.

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

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**Approvals:**

- **Department Faculty Approval Date:** 3/9/12  
- **Department Chair's Signature:** Byrd (Date)  
- **Graduate Dean's Signature:**  
- **College Contact:** Jennifer Neal  
- **College Contact E-mail:** jsheerw@lsu.edu  
- **College Faculty Approval Date:** 10/10/12  
- **College Dean's Signature:**  
- **Chair, FS C & C Committee:**  
- **Academic Affairs Approval:** 11/4/12
Justification:

An increase in the number of plant breeding graduate students necessitates a reconfiguration of plant breeding courses. Students need more classroom instruction in critical areas. The majority of the course content will remain unchanged in HORT 7071. There will be additional material presented on gene expression. A section of the course on molecular biology is currently being covered in another class, AGRO 7080 Applied Plant Genomics, recently approved and taught for the first time.

This course is currently a 4 credit hour class with a change request to 3 credit hours. The course has been team taught with one half of the content relating to cytogenetics and gene expression. The second half of the class covers applied molecular biology techniques and data analysis of multi-location breeding trials. The course has evolved beyond its original class description. Thus, the data analysis and molecular biology technique lectures will be moved to other courses. This allows for a modest expansion of topics on gene expression and extrachromosomal inheritance, but to an extent which supplants the material previously presented in the course.

AGRI 2072 was cancelled in 1998; therefore, we have replaced the cancelled prerequisite with ANSC 2072: Introduction to Agricultural Genetics.
HORT 7071 Advanced Plant Genetics

Course Description: HORT 7071 Advanced Plant Genetics (3) Prereq.: ANSC 2072 or equivalent. See also AGRO 7871. Theory and practical application of cytogenetics in plant improvement, extrachromosomal inheritance, and gene expression.

Course Goal: The purpose of the course is to provide theoretical and practical exposure to plant breeding and genetics students to a classical cytogenetics approach to explaining inheritance, gene expression, traditional approaches to identifying the chromosomal location of genes, and nuclear events not explained by simple Mendelian genetics.

Instructor:
Dr. Don R. La Bonne, 104B Sturgis Hall, Baton Rouge, LA 70803, 225-578-1203; dlabonie@agcenter.lsu.edu

Class times: 11:40-1:30pm Tuesday and Thursday, 203 Sturgis Hall
Office hours: Immediately following class on Tuesday

Text: No formal text.
Assigned readings: Supportive material will be given out in class.

Grading:
90-100       A
89-80        B
79-70        C
69-60        D
59-           F

Tests:
Tests vary in nature from short answer, application, essay and computation.

mid-term exam  35 %
final exam     35 %
30 minute lecture 20 %/ (approved topic)
Quizzes         10 %
Schedule of Classroom Discussions
HORT 7071 Advanced Plant Genetics

Discussion Topic

Week 1: Introduction to Cytogenetics, cell cycle, mitotic spindle and chromosomes
Week 2: Gene regulation and quiz #1
Week 3: Gene regulation continued
Week 4: Transposable elements/mutations
Week 5: Epigenetics/somaclonal variation
Week 6: Cytoplasmic male sterility concepts
Week 7: Demonstration laboratory/test review and mid-term exam
Week 8: Student lecture presentations
Week 9: Student lecture presentations
Week 10: Chromosomal behavior (structural)
Week 11: Chromosomal behavior (structural)
Week 12: Chromosomal behavior (numerical) and quiz #2
Week 13: Chromosomal behavior (numerical)
Week 14: Chromosomal behavior (numerical)

Final exam
Code of Student Conduct: It is the responsibility of all students to familiarize themselves with the Code of Student Conduct and other University rules and regulations governing student conduct and activities.

Academic Dishonesty: Academic dishonesty can result in probation, suspension, or expulsion from the course. For more information, refer to your handbook of responsibility in student university relationship or refer to the Code of Conduct that can be found in the Office of the Dean of Students website within the LSU home page.

Disabilities Statement: If you have special needs addressed by the Americans with Disabilities Act, please notify your instructor immediately for proper accommodations.
From: Jennifer Neal
Sent: Monday, October 15, 2012 1:48 PM
To: Anna M Castrillo
Subject: RE: AGEC proposals

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From: Anna M Castrillo
Sent: Monday, October 15, 2012 1:47 PM
To: Jennifer Neal
Subject: RE: AGEC proposals

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From: Jennifer Neal
Sent: Friday, October 12, 2012 12:28 PM
To: Anna M Castrillo
Subject: RE: AGEC proposals
Request for CHANGING an Existing Course

Department  SPESS  College  AGRIC
Course Rubric and #  AGRO 7001  Date  10/10/12

Present Course Description
Title  Agronomy Seminar

Semester Hours of Credit 1
If lecture/lab, # hrs. of credit for lecture: 1  lab: 
Repeat Credit Max (if repeatable): 2  x
Graduate Credit?  Yes:  x  No: 
Credit will not be given for this course and:

Contact Hours Per Week (from ACM):
LEC  1  LAB  ___  SEM  ___  RES/IND  ___  CLIN/PRACT  ___
Total Weekly Contact Hours:  1
Grading System:  Letter Grade  x  Pass/Fail ___

Course Description:
Include course number, title, etc., exactly as it appears in the General Catalog:
7001 Agronomy Seminar (1) May be repeated for credit. 1 hr. seminar, reports.

Proposed Course Description
Title  Seminar
Short Title  Seminar
Semester Hours of Credit 1
If lecture/lab, # hrs. of credit for lecture: 1  lab: 
Repeat Credit Max (if repeatable): 2  x
Graduate Credit?  Yes:  x  No: 
Credit will not be given for this course and:

Contact Hours Per Week:
LEC  1  LAB  ___  SEM  ___  RES/IND  ___  CLIN/PRACT  ___
Total Weekly Contact Hours:  1
Grading System:  Letter Grade  x  Pass/Fail ___

Course Description:
Include course number, title, etc., exactly as it will appear in the General Catalog:
7001 Seminar (1) May be repeated for credit. Topics of current interest in agronomy, horticulture, soils, and the environment.

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 (X) 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:
Department Faculty Approval Date  10/10/12
Department Chair's Signature  Byers  10-30-12
Graduate Dean's Signature  (Date)

College Faculty Approval Date  10/18/12
College Dean's Signature  (Date)
Chair, FSC & C Committee  (Date)

Academic Affairs Approval  (Date)
The Departments of Agronomy and Horticulture merged years ago. We recently combined the agronomy and horticulture graduate programs into a new degree program: Plant, environmental management, and soil science. This revised catalog statement reflects the true nature of the seminar class which now includes horticulture graduate students. We will drop the horticulture seminar class given that it habitually does not meet enrollment minimums; the combined seminar class does.

*Is this course included in any curricula, concentrations, or minors?*

It is required for students in the M.S. and Ph.D program in Plant, environmental management, and soil science.
Graduate Seminar
Course Syllabus – AGRO 7001

Instructors: Drs. Jim Oard, Don Labonte, and Ed Bush

Class Time and Location: Friday 11:30 to 12:30, Room 135, Sturgis Hall

Course Objective: Gain experience in communicating your research to audiences and to potential employees.

Graduate Seminar is subjective in nature and the following criteria will be considered in determining the final grade.

Presentation options and guidelines:

1.) Develop a 25-minute presentation of your proposed research. This option is intended for students new to the graduate program. Students are also encouraged to develop a research proposal for submission to your committee. We will help, but you must work with your advisor on developing your research proposal and presentation.

2.) Develop a 25-minute “Exit” seminar of your research. This option is intended for students near the completion of their graduate program. An abstract must be available at your scheduled presentation date.

3.) A 12-minute research paper designed for a scientific meeting. This option is only available with permission of instructors.

ALL STUDENTS: A 200-250 word abstract signed and dated by your major professor must be given to Dr. Oard one week before your scheduled presentation date. Failure to submit signed and dated abstract one week before your scheduled presentation may result in a reduction of your final grade. The abstract format should include name of speaker, seminar title, time, and date. Additionally, you must advertise your seminar in both Sturgis and Miller Halls by posting on student/visitor bulletin boards as well as in the faculty areas (e.g. mail room) in both buildings.
Grading:
100-90 = A
89-80 = B
79-70 = C
69-60 = D
<60 = F

Seminar dates will initially be assigned during the second week of the semester by alphabetical order of students’ last names. Students will have one week to exchange seminar dates with other students in the class. After that period, no changing, dropping, or rearranging of seminar dates will be allowed. A student’s Major Professor must contact Dr. Oard for exceptions to this policy at least two weeks in advance of their student’s assigned seminar date. **Failure to adhere to this policy may result in a reduction of your final grade.**

Your presentation is worth 95% of your grade. A good presentation requires concise and clear wording, readable graphics and a speaker that has carefully considered what he or she wants to say. Practice, practice, practice! Your presentation will be evaluated based on preparation, visuals, content, delivery and time. **Keep within the allotted time (12-40 minutes, depending on type of seminar given).**

Email your Power Point presentation to Dr. Oard (joard@agcenter.lsu.edu) one week prior to your presentation.

The day of your seminar, provide Dr. Oard with a hard copy of your presentation that will be used to provide feedback to the student at the end of the semester.

**Participation in class is worth 5% of your grade.** Attend class each week and ask at least one question or have one comment during each class period. ATTENDANCE WILL BE TAKEN! It is one component of your final grade.

**Cell phones and pagers** are to be silent during the class and seminar presentation.

Cookies and soft drinks are typically provided by each student giving their seminar.

**Code of Student Conduct:** It is the responsibility of all students to familiarize themselves with the Code of Student Conduct and other University rules and regulations governing student conduct and activities.

**Academic Dishonesty:** Academic dishonesty can result in probation, suspension, or expulsion from the course. For more information, refer to your handbook of responsibility in student university relationship or refer to the Code of Conduct that can be found in the Office of the Dean of Students website within the LSU home page.
Disabilities Statement: If you have special needs addressed by the Americans with Disabilities Act, please notify your instructor immediately for proper accommodations.
Request for CHANGING an Existing Course

Department: SPESS
Course Rubric and #: AGRO 1001
College: AGRICULTURE
Date: 9/27/12

Present Course Description
Title: Introduction to Managed Plant Systems in the Modern World

Semester Hours of Credit: 3
If lecture/lab, # hrs. of credit for lecture: 2
Repeat Credit Max (if repeatable): No
Graduate Credit? Yes: X, No:  
Credit will not be given for this course and: 

Contact Hours Per Week (from ACM):
LEC ___ LAB ___ SEM ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: ___4___
Grading System: Letter Grade ___X___ Pass/Fail ___ 

Course Description:
1001 Introduction to Managed Plant Systems in the Modern World (3) 2 hrs. lecture, 2 hrs. lab. Survey of plant kingdom: anatomy, growth and development of plants; ecosystem structure, sustainable agriculture and animal/plant systems; plant nutrition, food additives, and food safety; plant breeding for improved food and fiber; biotechnology and its role in modern agriculture.

Proposed Course Description
Title: Plants and People
Short Title: Plants and People

Semester Hours of Credit: 3
If lecture/lab, # hrs. of credit for lecture: 2
Repeat Credit Max (if repeatable): No
Graduate Credit? Yes: X, No:  
Credit will not be given for this course and: 

Contact Hours Per Week:
LEC ___ LAB ___ SEM ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: ___4___
Grading System: Letter Grade ___X___ Pass/Fail ___ 

Course Description:
1001 Plants and People (3) 2 hrs. lecture, 2 hrs. lab. Survey of plant kingdom: anatomy, growth and development of plants; ecosystem structure, sustainable agriculture and animal/plant systems; plant nutrition, food additives, and food safety; plant breeding for improved food and fiber; biotechnology and its role in modern agriculture.

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 (X)
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 (X), No ( )

JUSTIFICATION/EXPLANATION: Use separate sheet.

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

APPROVALS:
Department Faculty Approval Date: 9/12/12
Department Chair’s Signature: (Date)
Graduate Dean’s Signature: (Date)

College Faculty Approval Date: 10/18/12
College Dean’s Signature: (Date)
Chair, FS C & C Committee: (Date)

Academic Affairs Approval: (Date)
Course is included in the following curricula:

Agriculture minor
Plant and Soil Systems: Sustainable Plant Production Systems Area of Concentration, Crop Science Area of Concentration (School of Plant, Environmental and Soil Science offering)
Rationale

We are proposing a course name change to better reflect the broad scope and philosophy of the course and to give it a more manageable name. There is no change in course content.

David Himelrick
Professor of Horticulture
Managed Plant Systems in the Modern World
Agronomy 1001 Lecture: T and Th 10:30 – 11:50
Room 232 J.C. Miller Hall Lab: TBA

Instructor: David G. Himelrick, Ph.D.
Office: 137 Julian C. Miller Hall
Office Phone: 578-2222
e-mail: dhimelrick@agctr.lsu.edu

Course Objective: Students will be introduced to the interrelated importance of plants and people and our dependence on the plants as renewable resources. The course will have a general theme of humanistic and economic botany as well as taking a cultural and historical look at plants and civilization. This course introduces students to plant life and the impact of plants on society including their use as a major food source, as medicine and in the industrial and recreational world. The course looks at the continuing impact of new scientific technologies on society through changes in agriculture. Plant biology and domestication, genetic resource conservation, biological invasions, environmental pollution, genetic engineering, and biotechnology are surveyed.

Textbook: None. Moodle and Internet assignments.

Course Format: Lectures will be commodity or product based with an emphasis on underlying principles of food production, nutrition, crop improvement, origin and history, morphology, genetic diversity and utilization. By taking a multidisciplinary approach to studying the relationship between plants and people, I hope to stimulate interest in plant science and encourage students to further study. Also, by exposing students to society’s historical connection to plants, I hope to instill a greater appreciation for the botanical world. This course will investigate how plants have been manipulated to promote the development of modern societies. Specifically, the course will focus on how global crop production interconnects societies, provides food, fiber, medicine and aesthetics. It will emphasize the contemporary issues of agriculture. Ethical citizenship will be emphasized in regards to land stewardship and social responsibilities.
Dec. 5   Final Exam: Wed. 12:30 – 2:30
Laboratory Assignments:

Critical Thinking ~5 page popular style article examining some claim referencing scientific journal articles on the topic.
Soybeans / Beans Video
Visit to Farmers' Market

The body of your laboratory paper should be five or more double spaced typed pages. In addition to this you should have a References or Literature Cited section at the end. Also, I want to know what Data Bases you used in finding background material for the paper that may or may not appear in your references. For example 'Quackwatch' or 'BioMed'. Make this a Data Bases Used section. Google is NOT a database.

So, your paper should have an overall introduction to the topic suitable for the general public such as might be found in a "Readers Digest" article. This will be followed by a more in-depth discussion of the issues and the scientific findings. The final portion should be a summary and conclusions type section. You might want to use some attention-grabbing bold headings like you would find in a typical magazine article to highlight the noteworthy points that might follow. This helps to add interest to a popular article.

Below is an example of how your laboratory paper might cite a reference. The style you choose to use and how you cite your sources may be different than my example. Just be consistent and include all the necessary parts of the citation. In my example you are looking at High Fructose Corn Syrup in our diets.

**High Fructose Corn Syrup** Many nutritional scientists feel that more research is needed to determine the adverse effects of consuming added sugars containing fructose. Current guidelines recommend limiting sugar consumption in order to prevent weight gain and promote nutritional adequacy. However, recent data suggest that fructose consumption in humans results in increased visceral adiposity (colloquially known as belly fat), lipid dysregulation, and decreased insulin sensitivity, all of which have been associated with increased risk for cardiovascular disease and type 2 diabetes. The only published study to directly compare the effects of fructose with those of commonly consumed dietary sweeteners, high fructose corn syrup and sucrose, indicates that high fructose corn syrup and sucrose increase triglycerides (the form in which most fat is stored in the body) comparably to pure fructose.

References

Request for CHANGING an Existing Course

Department: Computer Science
Course Rubric and #: CSC 4357
College: Science
Date: 2-10-2012

Present Course Description
Title: Applied Interactive Graphics and Computer-Aided Design
Semester Hours of Credit: 3
If lecture/lab, # hrs. of credit for lecture: __ lab: __
Repeat Credit Max (if repeatable): X
Graduate Credit?: Yes: ___ No: ___
Credit will not be given for this course: __________
Contact Hours Per Week (from: ACM):
LEC ___ LAB ___ SEM ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: ___3___
Grading System: Letter Grade _X__ Pass/Fail ___
Course Description:
4357 Applied Interactive Graphics and Computer-Aided Design (3) See ME 4583

Proposed Course Description
Title: Applied Computer Graphics
Short Title: APPLID CMPTR GRAPHICS
Semester Hours of Credit: 3
If lecture/lab, # hrs. of credit for lecture: __ lab: __
Repeat Credit Max (if repeatable): X
Graduate Credit?: Yes: ___ No: ___
Credit will not be given for this course: __________
Contact Hours Per Week:
LEC ___ LAB ___ SEM ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: ___3___
Grading System: Letter Grade __X__ Pass/Fail ___
Course Description:
4357 Applied Computer Graphics (3) See ME 4583

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.

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

APPROVALS:
Department Faculty Approval Date: 2-10-2012
Department Chair's Signature: ______________ (Date) 02-18-2012
Graduate Dean's Signature: ______________ (Date) 10-30-12

College Faculty Approval Date: 10/11/12
College Dean's Signature: ______________ (Date) 10/30/12
Chair, FS C & C Committee: ______________ (Date) 11/4/12

Academic Affairs Approval: ______________ (Date)
Rev. 3/2011
CHANGE:

1. Update the course title:
   FROM: Applied Interactive Graphics and Computer-Aided Design
   TO:     Applied Computer Graphics

2. Update the course description:
   FROM:
   ME 4583 Applied Interactive Graphics and Computer-Aided Design (3) F Prereq.: ME 4573 or
equivalent. Also offered as CSC 4357. Application of interactive graphics techniques to solve specific
problems in engineering design and data retrieval.
   TO:
   ME 4583 Applied Computer Graphics (3) Prereq.: CSC 4356 or ME 4573 or equivalent. Also offered
as CSC 4357. Application of computer graphics techniques to solve specific problems in engineering
design, scientific visualization, and digital media.

REQUIRED FOR MINOR:
CSC 4357/ME 4583 is an approved restricted elective on the Science/Technology category for the Avatar
Digital Media minor. Students pursuing the DM-Art track must select 1 course from the list; students pursuing
the DM-Technology track must select 3 courses from the list.

JUSTIFICATION:
CSC 4357 is cross-listed with ME 4583.

The title change and minor alteration to the course description reflect new directions of applied science and
research in the area. The term “interactive” is dropped from the title in order to be inclusive of other genres
which are not interactive. The revised course definition adds mention of scientific visualization and digital
media, thereby reaching to connect to ongoing uses of computer graphics in science and engineering on campus
and elsewhere. The proposed definition also encompasses the implied areas of game and film graphics, which
are the focus of a variety of initiatives at both the University and State levels. The term “CAD” in the present
course description is reflective of the 1980s era of computer graphics during which this course was initiated.
Presently, CAD is a well understood and accepted graphical tool for particularly engineering design. At the core
of the course, the subject matter remains largely the same, but visualization and digital media applications are
more descriptive of the use of computer graphics in the modern era.

The proposed slight modifications to the course content support ongoing efforts at LSU to promote research and
teaching in the field of digital media. Recently LSU initiated a minor in digital media:
(http://avatar.lsu.edu/Degree%20Programs/item15322.html).
Students pursuing the minor must select from courses listed as “Science/Engineering”. The courses CSC
4356/ME 4573 “Interactive Computer Graphics” and CSC 4357/ME 4583 are currently both approved restrictive
electives on the list. A sequence of study involving both classes will enable greater mastery of the content for
especially students selecting the Technology track of the AVATAR Digital Media minor.

Furthermore, in discussions currently underway, there is strong interest in developing:
- an MS degree in Digital Media
- the LSU Center of Excellence in Video Game Development.
CSC 4356/ME 4573 and CSC 4357/ME 4583 are expected to be important courses in the planned initiatives.

All of the above efforts support the revitalization of CSC 4357/ME 4357. The class is to be scheduled for the
Spring 2013 semester.
Request for CHANGING an Existing Course

Present Course Description

Title: Applied Interactive Graphics and Computer-Aided Design

Semester Hours of Credit: 3

If combination course type, # hrs. of credit for lecture: lab/sem
Repeat Credit Max (if repeatable): X
Graduate Credit?: Yes: ___ No: ___

Credit will not be given for this course and:

Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC ___ LAB ___ SEM ___ REC ___ RES/INR ___ CLIN/PRAC ___

Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail

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

4583 Applied Interactive Graphics and Computer-Aided Design (3) Prereq.: ME 4573 or equivalent. Also offered as CSC 4573. Application of computer graphics techniques to solve specific problems in engineering design and data retrieval.

Proposed Course Description

Title: Applied Computer Graphics

Short Title: APP COMP GRAPHICS

Semester Hours of Credit: 3

If combination course type, # hrs. of credit for lecture: lab/sem
Repeat Credit Max (if repeatable): X
Graduate Credit?: Yes: ___ No: ___

Credit will not be given for this course and:

Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC ___ LAB ___ SEM ___ REC ___ RES/INR ___ CLIN/PRAC ___

Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail

Course Description:
Include course number, title, etc., exactly as it will appear in the General Catalog.

4583 Applied Computer Graphics (3) Prereq.: CSC 4356 or ME 4573 or equivalent. Also offered as CSC 4357. Application of computer graphics techniques to solve specific problems in engineering design, scientific visualization, and digital media.

Has this change been discussed 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:
Department Chair's Approval Date: 9/24/12
Department Chair's Signature: 9/26/12 (Date)
Graduate Dean's Signature: 10-30-12 (Date)

College Faculty Approval Date: 10/16/12
College Chair, FS C & C Committee: 10/30/12 (Date)

Academic Affairs Approval (Date)
JUSTIFICATION

ME 4583 is cross-listed with CSC 4357.

The title change and minor alteration to the course description reflect new directions of applied science and research in the area. The term “interactive” is dropped from the title in order to be inclusive of other genres which are not interactive. The revised course definition adds mention of scientific visualization and digital media, thereby reaching to ongoing uses of computer graphics in science and engineering on campus and elsewhere. The proposed definition also encompasses the implied areas of game and film graphics, which are the focus of a variety of initiatives at both the University and State levels. The term “CAD” in the present course description is reflective of the 1980s era of computer graphics during which this course was initiated. Presently, CAD is a well understood and accepted graphical tool for particularly engineering design. At the core of the course, the subject matter remains largely the same, but visualization and digital media applications are more descriptive of the use of computer graphics in the modern era.

The proposed slight modifications to the course content support ongoing efforts at LSU to promote research and teaching in the field of digital media. Recently LSU initiated a minor in digital media: (http://avatar.lsu.edu/Degree%20Programs/item15322.html).

Students pursuing the minor must select from courses listed as “Science/Engineering”. The courses CSC 4356/ME 4573 “Interactive Computer Graphics” and CSC 4357/ME 4583 are currently both approved restrictive electives on the list. A sequence of study involving both classes will enable greater mastery of the content for especially students selecting the Technology track of the AVATAR Digital Media minor.

Furthermore, in discussions currently underway, there is strong interest in developing:
- an MS degree in Digital Media
- the LSU Center of Excellence in Video Game Development.

CSC 4356/ME 4573 and CSC 4357/ME 4583 are expected to be important courses in the planned initiatives.

All of the above efforts support the revitalization of CSC 4357/ME 4357. The class is to be scheduled for the Spring 2013 semester.

Graduate students will not be treated differently from undergraduate students.
Catalog Statement:

ME4583 Applied Interactive Graphics and Computer-Aided Design (3) F Prereq: ME4573 or equivalent; Also offered as CSC 4357. Application of computer graphics techniques to solve specific problems in engineering design, scientific visualization, and digital media.

Text & Reference Materials:

Publications, notes, etc. to be distributed in regular meetings.

Coordinator:

Robert Kooima, Assistant Professor of Computer Science

Goals:

This follow-on course to the Interactive Computer Graphics course (ME 4573) gives the student the opportunity to investigate topics of special interest within the general area of computer graphics. Emphasis is placed on providing experience in dealing with computing systems of a highly interactive nature. Students will be exposed to advanced development tools for large-scale software development projects. Each student may also be required complete a library research project in order to develop a thorough understanding of and assess the state-of-the-art in some narrow area of computer-aided design and/or computer graphics.

This class is operated primarily as an independent study project course. Students are expected to use their particular experience and background, coupled with experiences in ME 4573, to conceive a project of substance in the areas of interactive computer graphics or digital media. The project can be classed as a systems problem or an application problem and can encompass software and/or hardware, depending on the student's background. Lecture material will initially cover the equipment and software development tools available for student projects and later focus on topics of interest in interactive computer graphics.

Each student is required to submit two formal written reports during the course of the semester each to be accompanied by an oral presentation. The first is a brief project proposal (2-3 pages) due no later than two (2) weeks after the first class period. In this proposal, the student is expected to clearly identify the objectives and scope of the application and develop a preliminary schedule of tasks necessary to complete the semester project. Acceptance of the proposal will be based on the quality of the ideas presented and the availability of proper hardware to support the work. Regular written progress reports/meetings are requested assessing the students’ progress and refining the original project schedule and objectives. At the close of
the semester, each student will submit a final project report containing: (1) a User's Manual documenting how to use the program; (2) a Programmer's Reference Guide detailing algorithms and data structures used in developing the program; (3) a Recommendations section for enhancing the application; and (4) an electronic archive of the source code and data assets. Depending on the complexity of the project, a student may also be asked to submit a literary survey with a set of up-to-date reference papers in a subject area chosen by the student and preapproved by the instructor. The survey topic may or may not be directly related to a student's project.

**Prerequisite by Topic:**
1. Knowledge and Experience with either the C or C++ programming language
2. Interactive Computer Graphics
3. Data Structures

**Course Administration:**

<table>
<thead>
<tr>
<th>Semester Project</th>
<th>80-100 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature Survey &amp; Bibliography</td>
<td>0-20 %</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>100 %</td>
</tr>
</tbody>
</table>

**Course Outline:**
1. Review of Three Dimensional Geometric Transformations
2. Advanced Graphics Processing Unit Capabilities
3. Data Structures for 3D Representation
4. Performance Analyses and Optimization
5. Techniques in Scientific Visualization
6. Techniques in Digital Media
7. Special Topics

**Estimated ABET Category Content:**

<table>
<thead>
<tr>
<th>Engineering Science:</th>
<th>2 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Design:</td>
<td>1 credit</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>3 credits</td>
</tr>
</tbody>
</table>
ME 4583/CSC 4573

Week 01: Introduction, Review of languages and tools
Week 02: Review of Computer Graphics
Week 03: Advanced GPU Capabilities *Project proposal due*
Week 04: Example Applications of Advanced GPU Capabilities
Week 05: Data structures for 3D Graphics
Week 06: Example Applications of Data structures for 3D Graphics
Week 07: *Paper Presentation*
Week 08: *Paper Presentation*
Week 09: Performance analysis and Optimization
Week 10: Performance analysis and Optimization
Week 11: Techniques in Scientific Visualization
Week 12: Techniques in Digital Media
Week 13: *Final Project Presentations*
Week 14: *Final Project Presentations*
Anna,

See note below. I scanned them together, but apparently they went through together so I only got the first page.

Jack

Hi Jack,

The Computer Science and Engineering Division supports the inclusion of CSC 4356 as a new prerequisite for ME 4583.

Regards,

Coretta

Coretta Douglas, Ph.D., Computer Science
Undergraduate/Instructional Coordinator and Instructor
School of Electrical Engineering and Computer Science
** Computer Science and Engineering **

Patrick Taylor #3170

Jack E. Helms, Ph.D., P.E.
Professional-in-Residence & Undergraduate Coordinator & ABET Coordinator
Dept. of Mechanical Engineering
2210 Patrick F. Taylor Hall
Louisiana State University
Baton Rouge, LA 70803
Phone: 225-578-6299
**Request for CHANGING an Existing Course**

**Department:** School of Library and Information Science  
**Course Rubric and #** LIS 7510  
**Date:** 8/27/2012  

**Faculty Approval Dates:**
- **G. DeHoff:** 9/20/12  
- **College Dean's Signature:** 10/30/12  
- **Chair, FS C & C Committee:** 11/14/12

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### Present Course Description

**Title:** Website Design and Management  
**Semester Hours of Credit:** 3  
**Credit will not be given for this course and:**  
**Contact Hours Per Week:** (Indicate hours in appropriate course type.)  
**Total Weekly Contact Hours:** 3  
**Grading System:** Letter Grade X Pass/Fail

**Course Description:**
7510 Website Design and Management (3) Design, produce, and manage effective web sites; understanding of the World Wide Web environment and related technologies.

---

### Proposed Course Description

**Title:** Website Design and Management  
**Semester Hours of Credit:** 3  
**Credit will not be given for this course and:**  
**Contact Hours Per Week:** (Indicate hours in appropriate course type.)  
**Total Weekly Contact Hours:** 3  
**Grading System:** Letter Grade X Pass/Fail

**Course Description:**
7510 Website Design and Management (3) Prereq.: LIS 7008 or permission of instructor. Design, produce, and manage effective web sites; understanding of the World Wide Web environment and related technologies.

---

**Has this change been discussed with and approved by all departments/colleges affected?** Yes ( ) No ( ) N/A (X)  
**Is this course included in any curricula, concentrations, or minors?** Yes (X) No ( ) If yes, 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.  
**Note:** IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.
Is this course included in any curricula, concentrations, or minors?

The Master of Library and Information Science

JUSTIFICATION/EXPLANATION:

The course that is being proposed as a prerequisite (LIS 7008) provides students with an introduction to HTML coding and basic web site design. Requiring that students complete LIS 7008 as a prerequisite will allow us to raise the content of LIS 7510 to a more advanced level.
Request for CHANGING an Existing Course

Department: Mech. And Ind. Engineering
Course # and #: ME 4133

Present Course Description
Title: Machine Design I: Kinematics of Machinery
Semester Hours of Credit: 3
Repeat Credit Max (if repeatable): (No)
Graduate Credit?: Yes: X No:
Credit will not be given for this course and:

Contact Hours Per Week: (Indicate number in appropriate course type.)
LEC 3 LAB ___ SEM ___ REC ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail

Course Description:
4133 Machine Design I: Kinematics of Machinery (3) Prereq.: ME 3133 or equivalent. Kinematic and dynamic analysis and synthesis of mechanisms.

Proposed Course Description
Title: Machine Design I: Kinematics of Machinery
Short Title: MACHINE DESIGN I
Semester Hours of Credit: 3
Repeat Credit Max (if repeatable): (No)
Graduate Credit?: Yes: X No:
Credit will not be given for this course and:

Contact Hours Per Week: (Indicate number in appropriate course type.)
LEC 3 LAB ___ SEM ___ REC ___ RES/IND ___ CLIN/PRACT ___
Total Weekly Contact Hours: 3
Grading System: Letter Grade X Pass/Fail

Course Description:
4133 Machine Design I: Kinematics of Machinery (3) Prereq.: ME 2543, 3133 or equivalent. Kinematic and dynamic analysis and synthesis of mechanisms.

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 (X) 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:
Department Faculty Approval Date: 9/24/12
Department Chair's Signature: 10/1/12
Graduate Dean's Signature: 10/30/12

College Faculty Approval Date: 10/1/12
College Dean's Signature: 10/30/12
Chair, FS C & C Committee: 10/30/12

Academic Affairs Approval: (Date)
A new course **ME 2543 Simulation Methods for Mechanical Engineers** is added as a prerequisite. The numerical methods for linear algebra and differential equations, and computer solution techniques presented in the new course are needed in the solution of mechanism problems. This course will hopefully help students to learn the analysis of mechanisms with a higher level of understanding.
Request for CHANGING an Existing Course

Department: Mech. And Ind. Engineering  
Course Rubric and #: ME 3834  

College: Engineering  
Date: 9/28/12

Present Course Description

Title: Fluid Mechanics

Semester Hours of Credit: 4

If combination course type, # hrs. of credit for lecture:   __________   
lab/sem /rec:   __________   
Repeat Credit Max (if repeatable):   X   
Graduate Credit?:   Yes:   ________   No:   ________   

Credit will not be given for this course and:   ________   

Total Weekly Contact Hours:   4   
Grading System: Letter Grade:   X   Pass/Fail:   ________   

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

3834 Fluid Mechanics (4) Prereq.: ME 2334, 3133; MATH 2057; and a grade of "C" or better in MATH 2090. Statics, kinematics, and dynamics of continuum liquids and gases; conservation laws (mass, momentum, energy); integral analysis; differential analysis and similarity; internal and external viscous flows; compressible flows.

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 (x)   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:

Department:  
Faculty Approval Date: 9/24/12

Department Chair's Signature:  9/28/12

Graduate Dean's Signature:  (Date)

College Contact:  
(Please print name.)

College Contact E-mail:  

College Faculty Approval Date: 10/1/12

College Dean's Signature:  (Date)

Chair, FS C & C Committee:  (Date)

Academic Affairs Approval:  (Date)
A new course **ME 2543 Simulation Methods for Mechanical Engineers** is added as a prerequisite. The numerical methods for linear algebra and differential equations, and computer solution techniques presented in the new course are needed in the solution of fluid mechanics problems. This course will hopefully help students to learn fluid mechanics with a higher level of understanding.
Request for CHANGING an Existing Course

Department: Mech. & Ind. Engineering
Course Rubric and #: ME 3701
College: Engineering
Date: 9/23/12

Present Course Description
Title: Materials of Engineering Laboratory
Semester Hours of Credit 1
If combination course type, # hrs. of credit for lecture: ______ lab/sem/rec: ______
Repeat Credit Max (if repeatable) ______ X
Graduate Credit? Yes: ______ No: ______
Credit will not be given for this course and: ____________
Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC L AB S EM R EC R ES/ I ND C LIN/ P R AC T
3
Total Weekly Contact Hours: 3
Grading System: Letter Grade x Pass/Fail ____

Course Description:
Include course number, title, etc., exactly as it appears in the General Catalog.
3701 Materials of Engineering Laboratory (1) Prereq.: proficiency in English as required by the College of Engineering; ME 2723 or 2733; and credit or registration in CE 3400. Demonstrative and participative experiments to develop a better understanding of characteristics of metals, ceramics, and plastics.

Proposed Course Description
Title: Materials of Engineering Laboratory
Short Title: M ATLS OF ENGR LAB
Semester Hours of Credit 1
If combination course type, # hrs. of credit for lecture: ______ lab/sem/rec: ______
Repeat Credit Max (if repeatable) ______ X
Graduate Credit? Yes: ______ No: ______
Credit will not be given for this course and: ____________
Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC L AB S EM R EC R ES/ I ND C LIN/ P R AC T
3
Total Weekly Contact Hours: 3
Grading System: Letter Grade x Pass/Fail ____

Course Description:
Include course number, title, etc., exactly as it appears in the General Catalog.
3701 Materials of Engineering Laboratory (1) Prereq.: proficiency in English as required by the College of Engineering; ME 2723 or 2733; and credit or registration in CE 3400. Demonstrative and participative experiments to develop a better understanding of characteristics of metals, ceramics, and plastics.

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 (X ) 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:
Department Faculty Approval Date: 9/7/12
Department Chair's Signature: 9/25/12
Graduate Dean's Signature: (Date)
College Faculty Approval Date: 10/1/12
College Dean's Signature: (Date)
Chair, FS C & C Committee: 10/30/12
Academic Affairs Approval: (Date)
ME students were previously required to take ENGL 1001 and 1002 in the freshman year. Definition of proficiency in English in the catalogue was not updated when we replaced ENGL 1002 with ENGL 2000. One prerequisite for ENGL 2000 is "... and 39 total credit hours earned by the time of enrollment." This prerequisite would push ME 3701 into semester 5 of our flowchart instead of allowing students to take ME 3701 immediately following ME 2723. This is a problem for ME only, so it is proposed to change the prerequisite to ME 3701 as noted on Form C to match faculty intent.

The College of Engineering definition of proficiency is: “English proficiency is defined as a grade of "C" or better in all required English courses in the student’s curriculum (ENGL 1001 and 2000).” The requirement of a grade of “C” or better was added to ME 3701 to match ME requirement that the students make a “C” or better in ENGL 1001.

**CURRICULUM**

**ME 3701** is a required laboratory course for the BS degree in Mechanical Engineering.

**PREREQUISITE**

**ME 3701** is a prerequisite course for **ME 3752 Material Selection for Mechanical Engineers**.