Minutes
Campus Curricula Committee Meeting
October 3, 2012
12 p.m., Room 117 Fulton Hall

Attendees: Lahne Black, Barry Flachsbart, Irina Ivliyeva, Keith Nisbett, Steve Raper, Tom Schuman, Daniel Tauritz, and Jennifer Thorpe.

The following curriculum forms were discussed and approved:

Degree Change Forms:
- DC #0421
- DC #0424
- DC #0425
- DC #0426
- DC #0427
- DC #0428

Course Change Forms:
- CC #8232
- CC #8245
- CC #8246
- CC #8247
- CC #8248
- CC #8249
- CC #8250
- CC #8251
- CC #8252
- CC #8253
- CC #8254
- CC #8255
- CC #8256
- CC #8257
- CC #8258
- CC #8260
- CC #8261
- CC #8265
- CC #8267
- CC #8268
- CC #8271
- CC #8272
- CC #8274
- CC #8275
- CC #8276
- CC #8277
- CC #8278
- CC #8279

Experimental Course Forms:
- EC #2414
- EC #2415
- EC #2416
- EC #2417
- EC #2418
- EC #2419
- EC #2420
- EC #2421
- EC #2422
- EC #2423
- EC #2424
- EC #2425
- EC #2426
- EC #2428
- EC #2429

The committee voted to table the items below for further action/clarification to be provided by the academic department responsible for each:

- DC #0417, Engineering Management, Bachelor of Science.
- DC #0419, Engineering Management, Bachelor of Science, Industrial Engineering Emphasis.
DC #0420, Engineering Management, Bachelor of Science, General Emphasis.

DC #0429, Engineering Management, Bachelor of Science.

The following forms were withdrawn from consideration:
CC #8258, Mining Engineering 408, Belt Conveying In Mines.

CC #8262, Marketing 350, Customer Focus and Satisfaction.

CC #8263, Business 350, Customer Focus & Satisfaction.

CC #8264, Business 450, Advanced Customer Focus & Satisfaction.

CC #8265, Marketing 450, Advanced Customer Focus and Satisfaction.

The Registrar's Office is still studying the viability of expanding the character limit of the course description field on EC and CC forms by 20%. Minor changes have been made to the DC, CC, EC, and NC forms and revised forms will be posted to the website.

The meeting adjourned at 1:20 p.m.

Daniel Tauritz, Chair
Missouri S&T Campus Curricula Committee
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Minor in Engineering Management

Department: EMSE

Briefly describe action requested (Attach documentation as appropriate):
Replace Emgt 352 – Financial Decision Analysis, with Emgt 147 – Engineering Accounting and Finance as one of the three required courses for the minor in Engineering Management. Emgt 352 – Financial Decision Analysis is no longer being offered by the department. Emgt 147 provides the appropriate knowledge for the minor in Engineering Management.

Current Minor course requirements:  Eng Mgt 134, 253, 352, and Eng Mgt 300 or 200 level course work (6 hours) chosen in consultation with minor advisor.

Proposed Minor in Eng Mgt course requirements:  Eng Mgt 134, 253, 147, and Eng Mgt 300 or 200 level course work (6 hours) chosen in consultation with minor advisor.

Recommended by Department:  
(Chair signature) 
Date: 3/28/12

Recommended by:  
Discipline Specific Curricula Committee  
(Chair signature) 
Date: 3/28/12

Approved by Curricula Committee:  
(Chair signature) 
Date: 5/15/12

Approved by Faculty Senate:  
(Chair signature) 
Date:  

03/28/12  
(Revised 9/12/2011)
Effective Year: 2013
Effective Term: Summer □ Fall x Spring □
(Creating or modifying a degree program must be effective for a fall term)

Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
B.S. in Applied Mathematics

Department: Mathematics and Statistics

Briefly describe action requested (Attach documentation as appropriate):
We would like to make the following changes:

(1) Wherever Econ 321 or Finance 350 appears in our requirements, use Math 337 instead.
(2) Amend the Math/Stat elective requirements as follows:


   Item (1) references catalog (Econ 321) and DAK (Finance 350).

Recommended by Department: ____________________________
(Chair signature)
Date: 4/30/2012

Recommended by:
Discipline Specific Curricula Committee ____________________________
(Chair signature)
Date: 9/7/2012

Approved by Curricula Committee: ____________________________
(Chair signature)
Date: 10/5/2012

Approved by Faculty Senate: ____________________________
(Chair signature)
Date: ________

(Revised 9/12/2011)
April 26, 2012

Justification for Changes to Applied Mathematics Curriculum

(1) Wherever Econ 321 or Finance 350 appear in our requirements, use Math 337 instead.

Rationale: In the 2005-2006 Undergraduate Catalog, the class Econ 321 (Finance) is listed with a prerequisite of Econ 221 or 222. Starting with the 2006-2007, the course Finance 350 (Corporate Finance II) has the same description that used to apply to Econ 321 but with a prerequisite of Finance 250, which is taken by hardly any of our majors. We began using the course Math/Econ 337 (Financial Mathematics) in place of the requirement that is still listed as Econ 321 in the catalog and as Finance 350 on the CAPS reports, which required a Substitution and Waiver form for each instance. This change will update the curriculum to reflect the current course offerings.

(2) Amend the math/stat elective requirements as follows:


(Note: students must select two groups and take two courses within each group.)

Rationale: The change from Econ 321 to Math 337 has been discussed previously. The inclusion of additional courses in Group 4 (statistics) and Group 5 (computational and applied mathematics) is intended to increase flexibility without decreasing rigor. Although it appears that Group 5 is being broadened a bit, the new offerings are in the spirit of a grouping that originally included Econ 321.

Group 2 is usually described as consisting of pure math classes that would be good preparation for a student planning graduate study. Abstract algebra is an excellent option for students considering graduate study (in fact, many schools with a less applied orientation require abstract algebra in the same way that we require advanced calculus). Inclusion in Group 2 would highlight that fact and give students an additional option.
Mission Statement

Innovate, transform, and empower.

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Innovate, transform, and empower.
Effective Year: 2013
Effective Term: Summer ☐ Fall x Spring ☐
(Creating or modifying a degree program must be effective for a Fall term)

Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
B.S. in Applied Mathematics, Actuarial Science emphasis

Department: Mathematics and Statistics

Briefly describe action requested (Attach documentation as appropriate):


Proposed:
Stat 343-Probability and Statistics.................3
Stat 344-Mathematical Statistics....................3
Econ 121-Principles of Microeconomics.............3
Econ 122-Principles of Macroeconomics..............3
Econ 222-Intermediate Macroeconomic Theory.......3
Math 337-Financial Mathematics....................3
and six hours from:
Stat 314-Applied Time Series Analysis...............3
Stat 346-Regression Analysis.......................3
Stat 353-Statistical Data Analysis..................3
Stat 355-Statistical Models in Actuarial Science....3
Stat 356-Statistical Models for Life Contingencies...3

In addition, the student must pass the first Actuarial Science Exam.

Recommended by Department: ____________________________
(Chair signature) Date: 4/30/2012

Recommended by: ____________________________
Discipline Specific Curricula Committee (Chair signature) Date: 9/2/2012

Approved by Curricula Committee: ____________________________
(Chair signature) Date: 10/5/2012

Approved by Faculty Senate: ____________________________
(Chair signature) Date:______

(Revised 9/12/2011)
April 26, 2012

Justification for Changes to Applied Mathematics Curriculum, Actuarial Science emphasis

The Actuarial Science emphasis area is one of the most popular choices for our undergraduate majors who do not plan on graduate study. As of the 2009-2011 Undergraduate Catalog, we have two new course offerings specifically for Actuarial Science students; we have been permitting students to use these courses to substitute for other requirements, but we would now like to make formal changes to the degree to reflect the new courses.

Our rationale for the specific nature of the changes is as follows:

Math 337 is a logical replacement for Econ 321/Finance 350 because it prepares students for the second Actuarial Science exam. Stat 355 and 356 are new courses which we think are appropriate for Actuarial Science students but do not want to require because they are not offered every year (they will likely be offered every two to two and one half years).

We want to include both Stat 314 and Stat 346 in the course choices because those two courses together satisfy one of the Validation by Educational Experience requirements of the Society of Actuaries.
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Electrical Engineering B.S. Program with Power and Energy Emphasis

Department: Electrical & Computer Engineering

Briefly describe action requested (Attach documentation as appropriate):
Add EE 353 Power Electronics as an additional approved elective for EE Elective D or Elective E in the EE B.S. with Power and Energy Emphasis.

The emphasis area change will be added to students’ CAPS/Audit report.

The catalog description for emphasis areas will be changed accordingly. The old description for the power and energy course list is "Power and Energy: El Eng 205 or 207, and 30X (Excluding El Eng 200, 201, 202, 300, and 301 Course)" The new description for the power and energy course list will be "Power and Energy: El Eng 205 or 207, 353, and 30X (Excluding El Eng 200, 201, 202, 300, and 301 Course)"

Recommended by Department: ___________________________ Date: 13 Aug 2012
(Chair signature)

Recommended by Discipline Specific Curricula Committee: ___________________________
(Chair signature) Date: 8/26/12

Approved by Curricula Committee: ___________________________
(Chair signature) Date: 10/5/2012

Approved by Faculty Senate: ___________________________
(Chair signature) Date: ________

09/13/12

(Revised 1/31/2008)
Effective Year: FS 2013  
Effective Term: Summer □  Fall ☑  Spring □  
(Creating or modifying a degree program must be effective for a Fall term)

Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:  
Electrical Engineering B.S. Program (General & all 7 Emphasis Areas)

Department: Electrical & Computer Engineering

Briefly describe action requested (Attach documentation as appropriate):  
The El Eng 391 requirement is changed to El Eng 391 with a "C" or better for graduation with an El Eng (general and all 7 emphasis areas) undergraduate degree. Footnote 3 is applied to El Eng 391 and "391," is added to the wording such that it reads "A minimum grade of "C" must be attained in ..., 391, and Cp Eng 111 and 112. Also, ...". Approved at the April 16, 2012 ECE Faculty Meeting

Recommended by Department:  
Kathlyn Einhorn  
(Chair signature)  
Date: 8-26-12

Recommended by:  
Discipline Specific Curricula Committee  
(Chair signature)  
Date: 10/5/2012

Approved by Curricula Committee:  
Daniel Gauthier  
(Chair signature)  
Date: 8-26-12

Approved by Faculty Senate:  
(Chair signature)  
Date: 10/5/2012

08/13/12  
(Revised 1/31/2006)
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Minor in Electrical Engineering

Department: Electrical & Computer Engineering

Briefly describe action requested (Attach documentation as appropriate):
Create a Minor in Electrical Engineering with the requirements noted below.
The El Eng Minor will be noted on the student's transcript.
The catalog description for the minor will be added as follows.

Electrical Engineering Minor Curriculum
A minor in Electrical Engineering will require the following:
Pass the El Eng Advancement Exam I (El Eng 151 Final) with a C or better*
Pass El Eng 153 and El Eng Advancement Exam II with a C or better
Pass 12 additional hours of El Eng coursework excluding El Eng 28X, 38X, and 39X. At least 3
lecture hours at the 3XX level are required. A C or better is required for all 12 hours. No
transfer courses and no more than 3 hours of El Eng 200 or El Eng 300 may be used to meet the
requirements. The course choice for the 12 additional hours are subject to the approval of the
minor advisor.
*One opportunity will be given to pass the El Eng Advancement Exam I if a student has prior
circuits coursework or experience. Otherwise, the student must pass El Eng 151.

Minor approved per ECE Faculty 4/16/2012.

Recommended by Department: ____________________________________________ Date: 13 Aug 2012
____________________________ (Chair signature)

Recommended by Discipline Specific Curricula Committee: ____________________ Date: 8-26-12
____________________________ (Chair signature)

Approved by Curricula Committee: _________________________________________ Date: 10/5/2012
____________________________ (Chair signature)

Approved by Faculty Senate: ________________________________________________ Date: ______
____________________________ (Chair signature)

08/13/12
(Revised 1/31/2008)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: English and Tech Com
2. Discipline and Course Number: Present:
   Proposed:

3. Course Title: Present:
   Proposed: International Dimensions of Technical Communication

4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: TCH COM 311 Examines complexity of communication of technical information worldwide. Includes topics such as graphics, icons, symbols; user interface design; intercultural communication. Prerequisite: TCH COM 65 or ENGL 65, or equivalent. Students may not earn credit for both TCH COM 311 and TCH COM 411.

5. If course requires field trip check box:

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: 3 Lab: Total:

7. Prerequisites:
   Present:
   Proposed: Tch Com 65 or Engl 65, or equivalent.

8. Required for Majors: □ Elective for Majors: □

9. Justification: International Technical Communication is currently being taught as TCH COM 411. TCH COM 311 would be taught concurrently, but would accommodate undergraduate enrollment, especially BS Tech Com majors. Graduate students in 411 would do additional work and be held to higher standards for assessment. See CC 7701 2009 for an example of this type of concurrent offering.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.
   1)
   2)
   3)
   4)
   5)
   6)

Recommended by Department:

Recommended by Discipline Specific Curricula Committee:

Approved by Curricula Committee:

Approved by Faculty Senate:

Date: 2/16/12
Date: 2/16/12
Date: 10/5/2012

(Chair signature)

(Chair signature)

(Chair signature)

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: EMSE
2. Discipline and Course Number: Present: 147
   Proposed: Eng 147
3. Course Title: Present: Engineering Accounting and Finance
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed:
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:
7. Prerequisites: Present: 137
   Proposed: Eng 137, or understanding of engineering economic principles.
8. Required for Majors: □
   Elective for Majors: □
9. Justification: EMSE 147 will replace EMSE 352 as a component of the Minor in Engineering Management. Course content in EMSE 147 is nearly the same as EMSE 352. In addition, EMSE 352 will no longer be offered by the department.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)
Recommended by Department ____________________________
(Chair signature) Date: 12/27/12
Recommended by Discipline Specific Curricula Committee ____________________________
(Chair signature) Date: 12/27/12
Approved by Curricula Committee: ____________________________
(Chair signature) Date: 10/5/2012
Approved by Faculty Senate: ____________________________
(Chair signature) Date:

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: ENGMGT Proposed: 213

3. Course Title: Present:
   Proposed: Introduction to Complex System Management

   Abbreviated Course Title: ComplexSysMgt
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: Provide an understanding of complex systems and tools to manage this complexity in system design, construction, and operation. Topics include systems thinking, modeling and simulation of systems, uncertainty in engineering, risk, and decision making in certain and uncertain environments.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: Lab: Total: Proposed: Lecture: 3 Lab: Total: 3

7. Prerequisites:
   Present:
   Proposed: MATH 8 or 11

8. Required for Majors: X Elective for Majors: □

9. Justification:
   This course will be a required core course for Engineering Management undergraduates. ABET assessment and continuous improvement activities indicate this course will provide students essential knowledge and help to develop their abilities to engage in open ended and ambiguous problem solving and critical thinking efforts.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   - 1)
   - 2)
   - 3)
   - 4)
   - 5)
   - 6)

   Recommended by Department: [Signature]
   (Chair signature)
   Date: 2/1/2013

   Recommended by Discipline Specific Curricula Committee: [Signature]
   (Chair signature)
   Date: 8/22/12

   Approved by Curricula Committee: [Signature]
   (Chair signature)
   Date: 10/5/2012

   Approved by Faculty Senate: [Signature]
   (Chair signature)
   Date: __________

(Revised 1/29/09)
EngMgt 213 – Introduction to Complex System Management
Tuesdays, Thursday 12:30 – 1:45 PM
Fall 2013

Instructor: Dr. Steven Corns
corns@msst.edu

Office: 213 Engineering Management Building
573-341-6367

Office hours: 10AM Mondays and Wednesdays and by appointment, although I will be in my office as much as possible from 8AM to 4:00PM (open door policy.)

Required Text – Decision Making In Systems Engineering and Management by Parnell, Driscoll, and Henderson.

Expected Learning Outcomes –

Provide an understanding of complex systems and tools to manage this complexity in system design, construction, and operation. Topics include systems thinking, modeling and simulation of systems, uncertainty in engineering, risk, and decision making in certain and uncertain environments.

Homework –

Homework is required for this class in lieu of exams. Six homework sets will be assigned during the course. Keep in mind that these problems are a minimum level of knowledge for this class. If you have any difficulty with the assignments, ASK! Come to office hours, email, call, or ask in class.

Grading –

The majority of grade for this class involves the development of a system proposal/design for the final project. There will also be six homework assignments, all of which will be assigned two weeks before they are due.

Overall class grades will be assigned on a percentage scale:

90-100% -- A
80-89% -- B
70-79% -- C
60-69% -- D

The point breakdown is as follows:

- Homework (5% each) 30%
- Mid-term exam 30%
- Final Exam 30%
- Participation/Teamwork* 10%

Late work will not be accepted unless arrangements have been made prior to the due date. Exceptions will be made only for emergencies. *Note that a significant portion of the overall grade is determined by your participation, teamwork, and professionalism.

Academic Dishonesty –

Page 30 of the MST Student Academic Regulations handbook describes the student standard of conduct relative to the System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty. It is available on-line at http://registrar.mst.edu/academicregs/index.html and http://ugs.mst.edu/.

Special Needs –

If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that the Disability/Services staff send a letter to me verifying your disability and to request that the Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation. Disability Support Services is located in 203 Norwood Hall. Their phone number is 341-6655 and their email is dss@mst.edu.

Academic Alert –

All faculty members are encouraged to utilize the online Academic Alert System. The purpose of the Academic Alert System is to improve the overall academic success of students by improving communication among students, instructors and advisors; reducing the time required for students to be informed of their academic status; and informing students of actions necessary by them in order to meet the academic requirements in their courses.
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course □   Course Deletion □   Credit Hours □   Prerequisites □
Course Title □   Catalog Description □   Course Number □   Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: EMSE
   Proposed:
2. Discipline and Course Number: Present: 253
   Proposed:
3. Course Title: Present: Operations and Production Management
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed:

5. If course requires field trip check box:
6. Credit Hours:
   Present:
   Proposed:
   Lecture:
   Lab:
   Total:
   Lecture:
   Lab:
   Total:
7. Prerequisites:
   Present:
   Eng Mgt 134 and 147; Stat 211, 213, or 215. A grade of "C" or better is required in this course to meet degree requirements.
   Proposed:
   Eng Mgt 134 and 147; Stat 215, 217, or consent of instructor. A grade of "C" or better is required in this course to meet degree requirements.
8. Required for Majors: □   Elective for Majors: □
9. Justification: To be consistent with the current catalog which requires either Stat 215, or 217.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 
   2) 
   3) 
   4) 
   5) 
   6) 
   Recommended by Department □
   Recommended by Discipline Specific Curricula Committee □
   Approved by Curricula Committee: □
   Approved by Faculty Senate: □

Date: 10/1/12
Date: 10/1/12
Date: 10/5/2012
Date: 

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: EMSE
2. Discipline and Course Number: Present: 265 Proposed:
3. Course Title:
   - Present: Quality Philosophes and Methods
   - Proposed: Quality
   - Abbreviated Course Title: Qty Quality
   - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   - Present:
   - Proposed:

5. If course requires field trip check box: □
6. Credit Hours:
   - Present: Lecture: Lab: Total:
   - Proposed: Lecture: Lab: Total:
7. Prerequisites:
   - Present: Stat 211, 213, or 215.
   - Proposed: Stat 215 or 217.
8. Required for Majors: □
   - Elective for Majors: □
9. Justification: To be consistent with the current catalog which requires either Stat 215, or 217.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initiated by Dept. Chair, if signature does not appear below.
   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

   Recommended by Department
   (Chair signature)

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)

   Approved by Curricula Committee:
   (Chair signature)

   Approved by Faculty Senate:
   (Chair signature)

   Date: 1/3/10
   Date: 11/6/12
   Date: 10/5/2012

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE
2. Discipline and Course Number: Present: 309 Proposed: ENG 478
3. Course Title: Present: Six Sigma Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:
4. Catalog Description (300 Character Spaces or Less.)
   Present: Proposed:

5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Stat 213, 215, or graduate standing.
   Proposed: Stat 215, 217, or graduate standing.
8. Required for Majors: □ Elective for Majors: ☑
9. Justification: To be consistent with the current catalog which requires either Stat 215, or 217.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

   Recommended by Department (Chair signature) Date: 2/19/10
   Recommended by Discipline Specific Curricula Committee: (Chair signature) Date: 9/12/12
   Approved by Curricula Committee: (Chair signature) Date: 10/5/2012
   Approved by Faculty Senate: (Chair signature) Date: ____________

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
- New Course [ ]
- Course Deletion [ ]
- Credit Hours [ ]
- Prerequisites [X]
- Course Title [ ]
- Catalog Description [ ]
- Course Number [ ]
- Co-listing [ ]

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** EMSE

2. **Discipline and Course Number:** Present: 356
   Proposed: ENG 401

3. **Course Title:** Present: Industrial System Simulation
   Proposed:
   
   **Abbreviated Course Title:**
   (24 Spacing or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:

4. **Catalog Description**
   (300 Character Spaces or Less.)
   Present:
   Proposed:

5. **If course requires field trip check box:** [ ]

6. **Credit Hours:**
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:

7. **Prerequisites:**
   Present: Stat 213 or 215.
   Proposed: Stat 215 or 217.

8. **Required for Majors:** [X] **Elective for Majors:** [X]

9. **Justification:**
   To be consistent with the current catalog which requires either Stat 215, or 217. Required for Industrial Engineering Emphasis, but not MOT or General Engineering Emphasis areas.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**

11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**
   1) 2) 3)
   4) 5) 6)

   **Recommended by Department**
   [Chair signature]
   Date: 2/27/12

   **Recommended by Discipline Specific Curricula Committee**
   [Chair signature]
   Date: 8/26/12

   **Approved by Curricula Committee**
   [Chair signature]
   Date: 10/5/12

   **Approved by Faculty Senate**
   [Chair signature]
   Date: 

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** EMSE
2. **Discipline and Course Number:** Present: 366 Proposed:
3. **Course Title:** Present: Business Logistics Systems Analysis Proposed: Supply Chain Management Systems
   **Abbreviated Course Title:** Supply Chain MS
   **(24 Spaces or Less. Only needed for New Courses or Title Changes.)**
4. **Catalog Description**
   **Present:** An analysis of logistics function as a total system including inventory, transportation, order processing, warehousing, material handling, location of facilities, customer service, and packaging with trade-off and interaction.
   **Proposed:** This course focuses on the development of logistics management skills related to global supply chains. Particular attention will be given to supply chain systems analysis as part of the firm's strategic positioning, cultural interactions and transportation sourcing decisions.

5. **If course requires field trip check box:** 
6. **Credit Hours:**
   **Present:**
   **Proposed:**
7. **Prerequisites:**
   **Present:** Stat 213, or 215.
   **Proposed:** Stat 215 or 217.
8. **Required for Majors:**
   **Elective for Majors:**
9. **Justification:** To be consistent with the current catalog which requires either Stat 215, or 217 and to more accurately describe course title and content. Required for MOT emphasis area students, but not Industrial Engineering or General Engineering Emphasis areas.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**

11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**

1) 2) 3) 4) 5) 6)

**Recommended by Department**

**Recommended by Discipline Specific Curricula Committee**

**Approved by Curricula Committee:**

**Approved by Faculty Senate:**

**Date: 2/19/12**

**Date: 8/26/12**

**Date: 10/5/2012**

**Date: 

(Revised 1/29/09)**
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: EMSE
2. Discipline and Course Number: Present: 372 Proposed:
   Eng Mgt
3. Course Title:
   Present: Production Planning and Scheduling
   Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:

4. Catalog Description
   (300 Character Spaces or Less.)
   Present:
   Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Present: Eng Mgt 282.
   Proposed: Eng Mgt 253.

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification:
   Eng Mgt 282 was renumbered to Eng Mgt 253.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

Recommended by Department ____________________________ Date: ____________________
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: ____________________
(Chair signature)

Approved by Curricula Committee: ____________________________ Date: ____________________
(Chair signature)

Approved by Faculty Senate: ____________________________ Date: ____________________
(Chair signature)

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**

- New Course ☐  
- Course Deletion ☐  
- Credit Hours ☐  
- Prerequisites ☑  
- Course Title ☑  
- Catalog Description ☑  
- Course Number ☑  
- Co-listing ☑

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** EMSE

2. **Discipline and Course Number:** Present: 381  
   Proposed: MEC 631

3. **Course Title:** Present: Management and Methods in Reliability  
   Proposed:  
   Abbreviated Course Title:  
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. **Catalog Description** (300 Character Spaces or Less.)
   Present:  
   Proposed:  

5. **If course requires field trip check box:** ☐

6. **Credit Hours:** Present:  
   Proposed:  
   Lecture:  
   Lab:  
   Total:  

7. **Prerequisites:**
   
   Present: Stat 213 or 215, or 343.  
   Proposed: Stat 215, 217, or 343.

8. **Required for Majors:** ☐  
   Elective for Majors: ☑

9. **Justification:** To be consistent with the current catalog which requires either Stat 215, or 217.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**

11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**
   1) 2) 3) 4) 5) 6)

   Recommended by Department: [Signature]  
   Date: 3/9/12

   Recommended by Discipline Specific Curricula Committee: [Signature]  
   Date: 8/26/12

   Approved by Curricula Committee: [Signature]  
   Date: 10/5/12

   Approved by Faculty Senate: [Signature]  
   Date:  

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE
2. Discipline and Course Number: Present: 385 Proposed: Eng Mgt
3. Course Title: Present: Statistical Process Control Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

   Present:
   Proposed:

4. Catalog Description (300 Character Spaces or Less.)

   Present:
   Proposed:

5. If course requires field trip check box:

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:

7. Prerequisites:
   Proposed: Stat 215, 217, or consent of instructor.

8. Required for Majors:
   Elective for Majors:

9. Justification:
   To be consistent with the current catalog which requires either Stat 215, or 217.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

Recommended by Department
(Chair signature)

Recommended by Discipline Specific Curricula Committee
(Chair signature)

Approved by Curricula Committee:
(Chair signature)

Approved by Faculty Senate:
(Chair signature)

Date: 2/9/12
Date: 8/24/12
Date: 10/5/2012

(Revised 1/29/09)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information
(1-9 Must Be Completed. Leave “Proposed” items blank if no change is being made.)
1. Department: Geological Sciences & Eng
2. Discipline and Course Number: Present: Geop 389 Proposed:
3. Course Title: Present: Seismic Data Processing Proposed:
   Abbreviated Course Title: Seis. Data Proc.
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: Introduction to seismic data processing. Topics to be covered include statics corrections, filtering, velocity analysis, deconvolution, stacking and migration.
   Proposed:

5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: 2 Lab: 1 Total: 3
   Proposed: Lecture: 2 Lab: 1 Total: 3
7. Prerequisites:
   Present: Math 22, and Geop 285 or Geop 385
   Proposed: Geop 270 or Geop 385
8. Required for Majors: □ Elective for Majors: □
9. Justification: Geop 270, which has been added to the catalog recently, covers the necessary knowledge needed for the course.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1)  2)  3)  4)  5)  6)

   Recommended by Department
   (Chair signature) Date: 4-3-12
   Recommended by Discipline Specific Curricula Committee
   (Chair signature) Date: 9/7/2012
   Approved by Curricula Committee: (Chair signature) Date: 10/5/2012
   Approved by Faculty Senate: (Chair signature) Date: __________

   (Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** Geological Sciences & Eng
2. **Discipline and Course Number:** Present: Geop 488  Proposed:
3. **Course Title:** Present: Advanced Seismic Interpretation  Proposed:
   **Abbreviated Course Title:** Adv. Seis. Interp.
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description** (300 Character Spaces or Less.)
   Present:
   The integration of geologic information, well log data and seismic information for interpreting the earth’s subsurface. The role of data acquisition and processing is emphasized. Laboratory exercises provide experience with both real and modeled data.
   Proposed:
   The integration of geologic information, well log data and seismic information for interpreting the earth’s subsurface using advanced 3-D seismic interpretation software packages. Reservoir identification and evaluation as well as horizon and formation attributes are included.
5. **If course requires field trip check box:**
6. **Credit Hours:**
   - Present: Lecture: 1  Lab: 2  Total: 3
   - Proposed: Lecture: 3  Lab: 0  Total: 3
7. **Prerequisites:**
   - Present: Geop 380, Geop 385
   - Proposed: Geop 270 or Geop 385
8. **Required for Majors:**
9. **Elective for Majors:**
10. **Justification:** More hours are needed for lecture. The practical skills can be achieved as part of the course assignments.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**
11. **List all co-listed courses, initial by Dept. Chair, if signature does not appear below.**
   1)  2)  3)
   4)  5)  6)

**Recommended by Department:**

**Recommended by Discipline Specific Curricula Committee:**

**Approved by Curricula Committee:**

**Approved by Faculty Senate:**

Date: 4-3-12
Date: 9/7/2012
Date: 10/5/2012
Date: 12/5/2012

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** *(Check all changes.)*
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information** *(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)*

1. Department: Geological Sciences & Eng
2. Discipline and Course Number: Present: Geop 377 Proposed:
3. Course Title: Present: Seismic Interpretation Proposed:
   - **Abbreviated Course Title:** Seis. Interp.
   - **Catalog Description (300 Character Spaces or Less.):**
     - Present: An introduction to 2-D/3-D seismic structural interpretation, stratigraphic interpretation, reservoir identification and evaluation, and horizon and formation attributes. The students are expected to master interactive 2-D/3-D seismic interpretation software packages that are routinely used in ....
     - Proposed:

4. If course requires field trip check box: □
5. Credit Hours: Present: Lecture: 1 Lab: 2 Total: 3 Proposed: Lecture: 2 Lab: 1 Total: 3
6. Prerequisites: Present: Geop 270 Proposed:
7. Required for Majors: □ Elective for Majors: □
8. Justification: More hours are needed for lecture. Some of the practical skills can be achieved as part of the course assignments.
9. Semesters previously offered as an experimental course (101, 201, 301, 401):
10. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
    1) 2) 3) 4) 5) 6)

   **Recommended by Department**
   - [Signature]
   - Date: 4-3-12

   **Recommended by Discipline Specific Curricula Committee**
   - [Signature]
   - Date: 9-9-2012

   **Approved by Curricula Committee:**
   - [Signature]
   - Date: 10-1-2012

   **Approved by Faculty Senate:**
   - [Signature]
   - Date: _

(Revised 1/29/09)
Effective Year: 2013
Term: Summer ☐ Fall ☐ Spring ☑

Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course ☑ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Biological Sciences
   Proposed: BioSci
2. Discipline and Course Number: Present: 294—Proposed: 271
3. Course Title: Present: Issues in Public Health
   Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Proposed:
   4. Catalog Description (300 Character Spaces or Less.)
   Present:

   Proposed: Due to globalization, diseases such as West Nile Disease, Ebola Hemorrhagic Fever, and SARS are able to overcome geographic barriers and become widespread. We will discuss the nature of these diseases and their impact on public health, national security, and the economy of global society.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: 2 Lab: 0 Total: 2
   Proposed: Lecture: 2 Lab: 0 Total: 2

7. Prerequisites:
   Present: BioSci 110 or BioSci 111
   Proposed:

8. Required for Majors: ☐ Elective for Majors: ☑

9. Justification: Course has been taught twice as experimental course (201) and is now being given a regular number.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP2011, SP2012

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1)
   2)
   3)
   4)
   5)
   6)

Recommended by Department
(Chair signature)

Recommended by Discipline Specific Curricula Committee
(Chair signature)

Approved by Curricula Committee:
(Chair signature)

Approved by Faculty Senate:
(Chair signature)

Date: 4/6/12
Date: 9/1/2012
Date: 10/5/2012

(Renewed 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**  
(5-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

**Course Information**

**1. Department:** Biological Sciences  
**BioSci**

**2. Discipline and Course Number:**  
Present: 461  
Proposed:

**3. Course Title:**  
Present: Advanced Cell Biology  
Proposed: Molecular Cell Biology

**Abbreviated Course Title:**  
Mol-Cell-Bio

**4. Catalog Description**  
(300 Character Spaces or Less.)

Present: Advanced study of the biology of eukaryotic cells, including biomembranes and membrane transport, subcellular organelles, cellular energetics, protein sorting, cytoskeletal elements, cell to cell signalling, regulation of the cell cycle, and tissue organization.

Proposed: (no change)

**5. If course requires field trip check box:**

**6. Credit Hours:**  
Present: 3  
Proposed: 3

**7. Prerequisites:**  
Present: BioSci 211 or equivalent  
Proposed: BioSci 211 or equivalent.

**8. Required for Majors:**

**Elective for Majors:**

**9. Justification:** The proposed new name better fits the course description.

**10. Semesters previously offered as an experimental course (101, 201, 301, 401):**

**11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below:**

1)  
2)  
3)  
4)  
5)  
6)  

Recommended by Department

(Chair signature)

Recommended by Discipline Specific Curricula Committee  
(Chair signature)

Approved by Curricula Committee:  
(Chair signature)

Approved by Faculty Senate:  
(Chair signature)

Date: 8/16/12  
Date: 9/17/12  
Date: 10/5/12

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Select all changes.)
- New Course
- Course Deletion
- Credit Hours
- Prerequisites
- Course Title
- Catalog Description
- Course Number
- Co-listing

Course Information
(1-9 must be completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Electrical & Computer Engineering

2. Discipline and Course Number: Present: EE 401  Proposed: EE 454

3. Course Title: Present: Power Converter Modeling and Design
   Proposed: Same

   Abbreviated Course Title: Pwr Conv Model & Design
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)
   Present: Students will learn electrical, magnetic, and thermal modeling techniques for switching power converters that are applicable to both simulation and analysis. Students will then learn a generic framework to design optimal converters using these models.
   Proposed: Students will integrate electrical, magnetic, and thermal modeling techniques into a design process for switching power converters. A variety of applications will be considered, including dc-dc, ac-dc, and dc-ac converters over a wide power range.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: 3  Lab: 0  Total: 3
   Proposed: Lecture: 3  Lab: 0  Total: 3

7. Prerequisites:
   Present: EE 353 or equivalent
   Proposed: EE 353

8. Required for Majors: □  Elective for Majors: □

9. Justification: This new course expands our offerings at the graduate level in the growing power electronics field. Previous offerings as EE 401 attracted 11 (2009) & 22 (2011) graduate students. EE 353 has had a typical enrollment of 40+ over the past 3 years.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP 2009 & SP 2011

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1)  2)  3)  4)  5)  6)

   Recommended by Department: [Signature]
   Recommended by Discipline Specific Curricula Committee: [Signature]
   Approved by Curricula Committee: [Signature]
   Approved by Faculty Senate: [Signature]
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Electrical and Computer Engineering
2. Discipline and Course Number: Present: CpE 404
   Proposed:
3. Course Title: Present: Data Mining & Knowledge Discovery
   Proposed: Advanced Topics in Data Mining
   Abbreviated Course Title: Adv. Data Mining Topics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: Data mining and knowledge discovery utilizes both classical and new algorithms, such as
   machine learning and neural networks, to discover previously unknown relationships in data.
   Key data mining issues to be addressed include knowledge representation and knowledge
   acquisition (automated learning).
   Proposed: Advanced topics of current interest in the field of data mining. This course involves reading
   seminal and state-of-the-art papers as well as conducting topical research projects including
   design, implementation, experimentation, analysis, and written and oral reporting
   components.
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: 3
   Lab: 0
   Total: 3
   Proposed: Lecture: 3
   Lab: 0
   Total: 3
7. Prerequisites:
   Present: (Comp Sci 338 or Comp Sci 347) and Stat 215
   Proposed: Comp Sci 301 Introduction to Data Mining
8. Required for Majors: □
   Elective for Majors: ☑
9. Justification: The introductory material that used to be covered in this course is now being covered
   in Comp Sci 301 Introduction to Data Mining, allowing this course to focus more on
   the advanced material. This is the CpE 404 and SysEng 404 co-list companion CC form
   to the CC form for Comp Sci 444.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
    1) CmpSc 444
    2) SysEng 404
    3) 
    4) 
    5) 
    6) 

   Recommended by Department:
   (Chair signature)
   Date: 9/Jul/2012
   Recommended by Discipline Specific Curricula Committee:
   (Chair signature)
   Date: 8-26-12
   Approved by Curricula Committee:
   (Chair signature)
   Date: 16/5/2012
   Approved by Faculty Senate:
   (Chair signature)
   Date:

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course ☐  Course Deletion ☐  Credit Hours ☐  Prerequisites ☒
Course Title ☒  Catalog Description ☒  Course Number ☒  Co-listing ☐

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Computer Science
2. Discipline and Course Number: Present: Comp Sci 434  Proposed: Comp Sci 444
3. Course Title:
   Present: Data Mining & Knowledge Discovery
   Proposed: Advanced Topics in Data Mining
   Abbreviated Course Title: Adv. Data Mining Topics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: Data mining and knowledge discovery utilizes both classical and new algorithms, such as
   machine learning and neural networks, to discover previously unknown relationships in data.
   Key data mining issues to be addressed include knowledge representation and knowledge
   acquisition (automated learning).
   Proposed: Advanced topics of current interest in the field of data mining. This course involves reading
   seminal and state-of-the-art papers as well as conducting topical research projects including
   design, implementation, experimentation, analysis, and written and oral reporting
   components.
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3  Lab: 0  Total: 3
   Proposed: Lecture: 3  Lab: 0  Total: 3
7. Prerequisites:
   Present: (Comp Sci 338 or Comp Sci 347) and Stat 215
   Proposed: Comp Sci 301 Introduction to Data Mining
8. Required for Majors: ☐  Elective for Majors: ☒
9. Justification: The introductory material that used to be covered in this course is now being covered
   in Comp Sci 301 Introduction to Data Mining, allowing this course to focus more on
   the advanced material.

10. Semesters previously offered as an experimental course (101, 301, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) Cpe 404 Date  2) SysEng 404 Date  3) Date
4)  5)  6)
   Recommended by Department ____________________________ (Chair signature) Date: Jan 22, 2012
   Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/9/2012
   Approved by Curricula Committee: ____________________________ (Chair signature) Date: 10/5/2012
   Approved by Faculty Senate: ____________________________ (Chair signature) Date:

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

1. Department: English and Tech Comm
2. Discipline and Course Number: Present: TCH COM 411 Proposed: TCH.COM 411
3. Course Title: Present: International Technical Communication
   Proposed: Adv International Tech Comm
   Abbreviated Course Title: Adv International Tech Comm
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: TCH COM 411 Examines complexity of communication of technical information worldwide.
   Includes topics such as graphics, icons, symbols; user interface design; Intercultural communication.
   Proposed: Advanced study of international technical communication. Includes topics such as graphics, icons, symbols; user interface design; Intercultural communication. Requires field work at student's expense. Students may not earn credit for both TCH.COM 311 and TCH.COM 411.
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3 Lab: 0 Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Graduate Standing
   Proposed:
8. Required for Majors: ☒ Elective for Majors: ☐
9. Justification: May be taught concurrently with TCH COM 311. Graduate students will do additional work and be held to a higher standard for assessment. See CC 7701 2009 for an example of this type of concurrent offering.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

4) 5) 6) 7) 8) 9) 10) 11) 

Recommended by Department: [Signature] (Chair signature) Date: 6/9/12
Recommended by Discipline Specific Curricula Committee: [Signature] (Chair signature) Date: 8/11/12
Approved by Curricula Committee: [Signature] (Chair signature) Date: 10/5/2012
Approved by Faculty Senate: [Signature] (Chair signature) Date: 1

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Course Change Form (CC)

Course Changes
(Check all changes.)

New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information
(1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Computer Science
2. Discipline and Course Number: Present: Comp Sci 256 Proposed:
3. Course Title: Present: Programming Languages and Translators Proposed:

Abbreviated Course Title:
(24 Spaces or Less, Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

Present: Covers basic design of programming languages, compilers and interpreters. The concepts of syntax, variables, expressions, types, scope, functions, procedures, statements, I/O, exception handling and concurrency are introduced. The manner in which various programming languages handle these concepts is discussed.

Proposed:

5. If course requires field trip check box: □

6. Credit Hours:

Present: Lecture: 3 Lab: 0 Total: 3
Proposed: Lecture: Lab: Total:

7. Prerequisites:
Present: Comp Sci 153
Proposed: Comp Sci 220

8. Required for Majors: □ Elective for Majors: □

9. Justification:
Before taking this course, students should be introduced to topics such as grammars that are covered in Comp Sci 220 (Theory of Computer Science). Comp Sci 153 (Data Structures) is a prerequisite for Comp Sci 220, so it no longer needs to be listed as a prerequisite for Comp Sci 256.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
1) 2) 3) 4) 5)

Recommended by Department: [Signature] Date: 5/14/2017
Recommended by Discipline Specific Curricula Committee: [Signature] Date: 9/17/2012
Approved by Curricula Committee: [Signature] Date: 10/5/2012
Approved by Faculty Senate: [Signature] Date: 

(Revised 1/26/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Electrical & Computer Engineering

2. Discipline and Course Number:  Present: EE 392  Proposed:

3. Course Title:  Present: Electrical Engineering Senior Project II  Proposed:
Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: A continuation of El Eng 391.
   Proposed:

5. If course requires field trip check box: □

6. Credit Hours:  Present: Lecture: 0  Lab: 3.0  Total: 3.0
   Proposed: Lecture:  Lab:  Total:

7. Prerequisites:
   Present: El Eng 391.
   Proposed: El Eng 391 with a grade of "C" or better.

8. Required for Majors: □  Elective for Majors: □

9. Justification: Modification to Undergraduate EE Requirements per ECE Faculty 4/16/2012.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1)  2)  3)
   4)  5)  6)

   Recommended by Department

   Recommended by Discipline Specific Curricula Committee

   Approved by Curricula Committee:

   Approved by Faculty Senate:

   Date: 13 Aug 2011
   Date: 8-26-12
   Date: 10/5/2012

Date: __________

(Chair signature)

(Chair signature)

(Chair signature)

(Chair signature)

Revised 1/31/08

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Effective Year: 2013
Term: Summer ☐ Fall ☐ Spring ☒

Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒
Course Title ☒ Catalog Description ☒ Course Number ☐ Co-listing ☒

Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)
1. Department: Computer Science
2. Discipline and Course Number: Present: CmpSc 445 Proposed:
3. Course Title: Present: Robotic Sensors And Controls Proposed: Advanced Topics in Robotics
Abbreviated Course Title: Adv. Topics in Robotics
(24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
Proposed: This course covers advanced topics in robotics, including perception, robotic path planning, robotic system integration, and computational intelligence topics for robotics. A term project including both written and oral components will be required.
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3 Lab: Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: CmpSc 345
   Proposed: A "C" or better in either CmpSc 345 or ME 349 or AE 349
8. Required for Majors: ☐ Elective for Majors: ☒
9. Justification: The proposed changes are consistent with the changes being proposed to this course’s principal prereq, CmpSc 345, thus forming a well coordinated sequence.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) Cpe 488 ☒
   2) ☒
   3) ☒
   4) EE 488 ☒
   5) ☒
   6) [Signature]

Recommended by Department [Signature]
Recommended by Discipline Specific Curricula Committee [Signature]
Approved by Curricula Committee: [Signature]
Approved by Faculty Senate: [Signature]

Date: 8/15/12
Date: 9/17/12/9/17/12
Date: 10/5/12
Date: 1/29/09

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
(Check all changes.)

- New Course ☑
- Course Deletion ☐
- Credit Hours ☐
- Prerequisites ☐

**Course Title**

- Catalog Description ☐
- Course Number ☐
- Co-listing ☑

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Electrical and Computer Engineering
2. Discipline and Course Number: Present: 
   Proposed: EE 488
3. Course Title: Present:
   Proposed: Advanced Topics in Robotics
   Abbreviated Course Title: Adv. Topics in Robotics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:

   Proposed: This course covers advanced topics in robotics, including perception, robotic path planning, robotic system integration, and computational intelligence topics for robotics. A term project including both written and oral components will be required.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: 3 Lab: 0 Total: 3

7. Prerequisites:
   Present:

   Proposed: A "C" or better in either CmpSc 345 or ME 349 or AE 349

8. Required for Majors: ☐
   Elective for Majors: ☑

9. Justification: This forms adds EE 488 as a co-listing for CmpSc 445.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

   1) CmpSc 445 (2) 3)  
   3) 
   4) Cpe 488 (5) 6) 

Recommended by Department: 
(Chair signature)

Recommended by Discipline Specific Curricula Committee: 
(Chair signature)

Approved by Curricula Committee: 
(Chair signature)

Approved by Faculty Senate: 
(Chair signature)

Date: 15 Aug 2012
Date: 5 Feb 2012
Date: 10/5/2007

(Revised 1/29/09)
Effective Year: 2013
Term: Spring

Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course ☒ Course Deletion ☐ Credit Hours ☐ Prerequisites ☑ Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☒

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Electrical and Computer Engineering
2. Discipline and Course Number: Present:
   Proposed: CpE 488
3. Course Title: Present:
   Proposed: Advanced Topics in Robotics
   Abbreviated Course Title: Adv. Topics in Robotics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: This course covers advanced topics in robotics, including perception, robotic path planning, robotic system integration, and computational intelligence topics for robotics. A term project including both written and oral components will be required.

5. If course requires field trip check box: ☐

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: 3 Lab: 0 Total: 3

7. Prerequisites:
   Present:
   Proposed: A "C" or better in either CmpSc 345 or ME 349 or AE 349

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification: This forms adds CpE 488 as a co-listing for CmpSc 445.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) CmpSc 445
   2) 3)
   4) EE 488

Recommended by Department

Recommended by Discipline Specific Curricula Committee:

Approved by Curricula Committee:

Approved by Faculty Senate:

Date: 15 Aug 2012
Date: 8-36-17
Date: 10/5/2012
Date:

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course □ Course Deletion □ Credit Hours □ Prerequisites □
Course Title □ Catalog Description □ Course Number □ Co-listing □

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Business & Info Tech

2. Discipline and Course Number: Present: Proposed: IST 335

3. Course Title: Present:

   Proposed: Fundamentals of Mobile Technology for Business

   Abbreviated Course Title: Fund Mobile Tech for Bus
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

   Present:

   Proposed: A broad overview of mobile technology use in business environments. Topics include the
   mobile industry; mobile network & wireless standards; mobile devices; mobile web design &
   app development; social & user experience issues; mobile marketing & commerce. Cannot
   take both IST 335 and IST 435.

5. If course requires field trip check box: □

6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: 3.0 Lab: Total: 3.0

7. Prerequisites:
   Present:

   Proposed: IST 223, IST 233

8. Required for Majors: □ Elective for Majors: □

9. Justification: This becomes an undergraduate version of the existing Graduate Course, which is re-
   titled and changed slightly. Additional work is required for the graduate course (IST
   435). This course will be a part of a new Minor, to be proposed for Fall 2013.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

   1) 2) 3)

   4) 5) 6)

   Recommended by Department: Date: 8/27/12

   Recommended by Discipline Specific Curricula Committee: Date: 9/4/2012

   Approved by Curricula Committee: Date: 6/5/2012

   Approved by Faculty Senate: Date: ______

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number □
- Co-listing □

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** Business & Info Tech

2. **Discipline and Course Number:** Present: IST 435
   Proposed: IST 435

3. **Course Title:**
   Present: Mobile Data Management
   Proposed: Mobile Technology for Business

   **Abbreviated Course Title:** Mobile Tech for Business
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. **Catalog Description** (300 Character Spaces or Less.)
   - **Present:**
     This course will describe and evaluate various wireless transmission techniques, communication network components and their characteristics, networking protocols, and network architectures. Appraise their use in existing and evolving applications, along with the management implications of such use.
   - **Proposed:** Overview of mobile technology use in business environments. Topics include: mobile industry; mobile network & wireless standards; mobile devices; mobile web design & app development; social & user experience issues; mobile marketing & commerce. Project req’d. Cannot take both IST 335 and IST 435.

5. **If course requires field trip check box:** □

6. **Credit Hours:**
   - **Present:** Lecture: 3.0
   - **Proposed:** Lecture: 3.0
   - **Lab:** Total: 3.0

7. **Prerequisites:**
   - **Present:** Graduate standing
   - **Proposed:** IST 223 or equivalent, IST 233 or equivalent, Graduate standing

8. **Required for Majors:** □
   **Elective for Majors:** □

9. **Justification:** The new description & title keeps up with technology trends. M.S. students in IST would have the prerequisites, but others might not, so they are stated. An undergraduate version of the course (IST 335) is being proposed as well. Additional work (semester project) is required for this course beyond the undergraduate course.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**

11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**

   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

   **Recommended by Department**
   (Chair signature)

   **Recommended by Discipline Specific Curricula Committee**
   (Chair signature)

   **Approved by Curricula Committee:**
   (Chair signature)

   **Approved by Faculty Senate:**
   (Chair signature)

   **Date:** 8/27/12
   **Date:** 9/4/2012
   **Date:** 10/5/2012

   (Revised 1/29/09)
Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1  
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Geological Science and Engineering

Discipline and Course Number: GE 301

Course Title: Soil Mechanics for GeoProfessionals

Abbreviated Title (24 spaces or less): Geo Soil Mech

Instructor(s): Ronaldo Luna

Credit Hours: Lecture: 3  Lab: 0  Total: 3

Prerequisites: A course in Statics and Mechanics of Materials or consent of instructor

Semester(s) previously taught: none

Brief Course Description: (40 words or less)
The basic principles of soil mechanics necessary for professionals to practice in the field of geoconstruction. Topics related to the practical aspects of engineering include: soil classification, index properties, water flow through soils, compaction, compressibility, and shear strength. These basic principles will be applied to real world geoconstruction problems.

This course is for distance ed./ Fort Leonard Wood graduate students only.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: [Signature]  Date: 4-3-12

Discipline Specific Curricula Committee: [Signature]  Date: 8-26-12

Curricula Committee: [Signature]  Date: 10/5/2012

04/02/12  (Revised 1/31/2008)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: History and Political Science

Discipline and Course Number: Pol. Sci. 301

Course Title: Constitutional Law: Government Powers and Civil Liberties

Abbreviated Title (40 spaces or less): Constitutional Law

Instructor(s): John Wiggins

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: "Pol. Sci. 90; History 112, 175, or 176"

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course will examine constitutional powers of American governmental institutions and leading Supreme Court decisions dealing with civil liberties including speech, religion, equal protection and the rights of the accused. The course will include the study of current political issues and problems relating to these foundational civil liberties.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3) 4) 5)

Department Chair: (Chair Signature)  
Discipline Specific Curricula Committee: (Chair signature)  
Curricula Committee: (Chair Signature)

Date: 6/13/12  
Date: 8/17/12  
Date: 10/5/2012

06/13/11  
(Revised 10/12/2012)

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Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining & Nuclear Engineering

Discipline and Course Number: MIN Eng 301

Course Title: Advanced Mineral Exploration

Abbreviated Title (24 spaces or less): Adv Mineral Exploration

Instructor(s): Cheryl Seeger

Credit Hours: Lecture: 2  Lab: 1  Total: 3

Prerequisites: Geology 125 and Min Eng 110

Semester(s) previously taught:

Brief Course Description: (40 words or less)
In depth examination of mineral deposit exploration and evaluation techniques. Geostatistical methods of ore reserve modeling; factors examined will include statistical data distributions, cut off grade, dilution and ore continuity. Evaluate sampling methods. Review major ore deposit types, data manipulation, data quality issues and data presentation. Case studies will be evaluated.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1)  2)  3)

4)  5)  6)

Department Chair: _______________________________ (Chair Signature)  Date: 06/10/12

Discipline Specific Curricula Committee: _______________________________  Date: 06/26/12

Curricula Committee: _______________________________  Date: 10/5/2012

(Chair Signature)

06/11/12  (Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining & Nuclear Engineering

Discipline and Course Number: ExpEng 301

Course Title: Display Fireworks Manufacturing

Abbreviated Title (24 spaces or less): Fireworks Manufacturing

Instructor(s): Stephen Hall

Credit Hours: Lecture: 1 Lab: 2 Total: 3

Prerequisites: Chem 1, Chem 2, Chem 4, Econ 121, Econ 122, Eng Mgt 137

Semester(s) previously taught: FS2012

Brief Course Description: (40 words or less)
Theory and practice of manufacturing display fireworks. Focusing on safety, chemical interaction, color development, basic theory, state and federal law. The lab will include hands on building of ball and cansister shells and other pyrotechnic effects.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1)
2)
3)
4)
5)
6)

Department Chair: [Signature] Date: 06/10/12

Discipline Specific Curricula Committee: [Signature] Date: 8/26/12

Curricula Committee: [Signature] Date: 10/5/2012

06/11/12 (Revised 10/12/2010)
Effective Year: 2013
Effective Term: Summer ☐ Fall ☐ Spring ☐

EC File #: 2418 - Sp2013 - Hist - 301

Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2000 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: History and Political Science
Discipline and Course Number: History 301
Course Title: The Cultural History of Economic Depression in America
Abbreviated Title (24 spaces or less): Depression in America
Instructor(s): Dr. Susan Curtis
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: History 112, History 176, or Political Science 90

Semester(s) previously taught:

Brief Course Description: (40 words or less)
From the depression of the 1890s to the Great Depression of the 1930s and ending in the present, this course introduces students to the ties between art, politics, and hard times in America.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)
4) 5) 6)

Department Chair: [Signature] Date: 6/17/13
Discipline Specific Curricula Committee: [Signature] Date: 6/17/12
Curricula Committee: [Signature] Date: 10/5/2012

06/30/12
(Revised 10/12/2012)

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Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three-year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: History and Political Science

Discipline and Course Number: History 301

Course Title: The History of Christianity and Islam

Abbreviated Title (24 spaces or less): Christianity and Islam

Instructor(s): Dr. Michael Bruening

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: History 111 or History 112

Semester(s) previously taught: Fall 2010

Brief Course Description: (40 words or less)
This course will trace the origins, development, and interaction of the world's two largest religions to the present day. Special emphasis will be placed on the religions' cultural and intellectual contributions to civilization, as well as to the military and cultural conflicts between the two faiths.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1)  
2)  
3)  
4)  
5)  
6)

Department Chair: [Signature]  Date: 8/17/12

Discipline Specific Curricula Committee: [Signature]  Date: 8/17/12

Curricula Committee: [Signature]  Date: 8/15/2012

06/05/13  (Revised 10/12/2010)

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Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mathematics and Statistics

Discipline and Course Number: Math 301

Course Title: Introduction to Numerical Methods for Differential Equations

Abbreviated Title (24 spaces or less): Numerical Diff Eqns

Instructor(s): John Singler, Yanzhi Zhang

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Math 204A Programming competency

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
An introduction to finite difference methods for ordinary and partial differential equations; including (1) the derivation of the numerical methods, (2) implementation of the methods in Matlab, and (3) the mathematical accuracy and stability analysis of the methods.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: ___________________________ (Chair Signature) Date: 5/4/2012

Discipline Specific Curricula Committee: ___________________________ (Chair Signature) Date: 1/9/2012

Curricula Committee: ___________________________ (Chair Signature) Date: 10/5/2012

(Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining And Nuclear Engineering

Discipline and Course Number: 401 ( min Eng)

Course Title: Heavy Mining Machinery Maintenance and Fatigue

Abbreviated Title (24 spaces or less):

Instructor(s): Nassib Aouad

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Graduate standing

Semester(s) previously taught: None

Brief Course Description: (40 words or less)

Heavy machinery optimization, utilization and reliability. Fatigue analysis and fracture mechanics overview; equipment usage and generation of stress conditions that influence fatigue strength and stress concentrations leading to fracture. Fatigue life and longevity of machinery.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)
4) 5) 6)

Department Chair: 
(Chair Signature)

Date: 06/25/12

Discipline Specific Curricula Committee:
(Chair signature)

Date: 8/26/12

Curricula Committee: 
(Chair Signature)

Date: 10/5/2012

(Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

A new course that is required as part of a degree program, minor, or graduate certificate may be submitted on a CC form to receive a permanent course number.

Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining And Nuclear Engineering

Discipline and Course Number: 401 (Min Eng)

Course Title: Mine Automation

Abbreviated Title (24 spaces or less): Mine Automation

Instructor(s): Nassib Aouad

Credit Hours: Lecture: 3  Lab: 0  Total: 3

Prerequisites: Graduate standing

Semester(s) previously taught: None

Brief Course Description: (40 words or less)
Introduction of automation and robotics into mine environments. The role of automated equipment in the mining industry. Design of automated mine with emphasis on availability, utilization and reliability of unmanned equipment. Theory and practice of fleet management and preventive maintenance scheduling.

List all co-listed courses: Include Initials of Dept. Chair, if signature is not already included below.

1)  2)  3)  4)  5)  6)

Department Chair:

Discipline Specific Curricula Committee:

Curricula Committee:

Date: 08/25/12
Date: 08/26/12
Date: 10/5/2012

06/25/12

(Revised 10/12/2010)
Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2009 or later allow the course to be offered twice at any time during the following three year period. After an experimental course has been offered twice, a CC form may be submitted to request a permanent course number.

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining And Nuclear Engineering

Discipline and Course Number: 401 (MIN Eng)

Course Title: Mining Machinery Event Simulation

Abbreviated Title (24 spaces or less): Mining Mac Event Sim

Instructor(s): Nassib Aouad

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Graduate standing

Semester(s) previously taught: None

Brief Course Description: (40 words or less)

Introduction to heavy mining machinery kinematics and dynamics. Computer modeling for assessing machinery behavior under extreme operating conditions; virtual prototype simulation of mechanical components to increase utilization productivity and reliability.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)

4) 5) 6)

Department Chair: (Chair Signature) Date: 06/25/12

Discipline Specific Curricula Committee: (Chair signature) Date: 8-36-12

Curricula Committee: (Chair Signature) Date: 10/5/2012

06/25/12

(Revised 10/12/2010)
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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Elect. and Comp. Engineering

Discipline and Course Number: EE301

Course Title: Introduction to Radar Systems

Abbreviated Title (24 spaces or less): Intro. to Radar Systems

Instructor(s): Reza Zoughi

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: EE271 & EE217

Semester(s) previously taught: None

Brief Course Description: (40 words or less)
Introducing fundamental principles of radar system design and applications.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: ___________________________ Date: 26 July 2012
(Chair Signature)

Discipline Specific Curricula Committee: ___________________________ Date: 8-36-12
(Chair signature)

Curricula Committee: ___________________________ Date: 10/6/2012
(Chair Signature)

Revised 10/12/2010

07/26/12

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EE301 – Spring 2013
Introduction to Radar Systems

Course Objectives
The goal of this course is to introduce senior and early graduate students to various radar system principles, designs and applications. Topics related to signals, systems, noise, resolution, multiple sampling, speckle, remote sensing will also be discussed.

Text

Project
As a significant part of the course requirements, there will be a class project performed in teams involving the paper-design of a complete radar system for a specific application such as a weather radar for small aircraft, altimeter for small aircraft, etc. This may also involve a student in each group from Engineering Management/Marketing department since each group will actually be treated as a small company competing for the same objective.

Grading:
Two exams (one may be a take-home), 25% each
Course project, 25%
Regularly assigned homework, 25%.

Intended Course Topics
- Background, history and application of modern radar development
- Radar equation
- Radar cross-section (RCS) and scattering coefficient (for point and area-extensive targets)
- Signal, noise, S/N, clutter
- Noise and signal PDF’s
- Atmospheric issues at microwave frequencies (i.e., oxygen and water vapor absorption bands)
- Signal averaging, coherent and incoherent integration
- Matched filter detection
- Complex targets
- RCS fluctuations
- Unambiguous range measurement
- Doppler effect, Doppler shift for horizontal travel (Isodops)
- CW, multiple-frequency CW radars
- Receiver bandwidth requirements and issues
- Frequency-Modulated Continuous-Wave (FM-CW) radars
- Resolution volume
- Amplitude weighting for target sidelobe reduction
- Calibration of FM-CW radars for absolute RCS measurements and remote sensing
- Calibration targets (flat metal plate, metal sphere, corner reflectors, Luneberg lens)
- MTI Radars
- Delay line cancelers (single, double and multiple cancelers)
- Multiple or staggered PRF
- Clutter attenuation
- Tracking radars (sequential lobing, conical scan, amplitude comparison monopulse)
- Remote sensing radars
- Side-looking Aperture Radar (SLAR)
- Speckle and fading
- Multiple independent samples
- General mechanism of scattering (smooth surface, rough surface, volume scattering)
- Smoothness criterion (Rayleigh criterion)
- Bragg resonance
- Hard targets
- Synthetic Aperture Radar (SAR)
- Focused and unfocused SAR
- Radar imaging principles
- Geometrical distortions in an image
- Chirp radar
- Pointing problems in dual antenna systems
- Ground penetrating radars

Other topics may also be covered or interchanged with some of those listed above.
Experimental Course Form (EC)

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mining and Nuclear Engineering
Discipline and Course Number: Mi Eng 401
Course Title: Geostatistics
Abbreviated Title (24 spaces or less): Geostatistics
Instructor(s): Kwame Awuah-Offei
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: Graduate standing or consent

Semester(s) previously taught: SP2012 (2210-SP2011-MiEng401)

Brief Course Description: (40 words or less)
Definition of geostatistical data; theory of random fields; autocorrelation and measures of spatial variability including semivariograms, variograms and covariance functions; and spatial prediction and validation. Case studies in mineral resource estimation and environmental pollutant prediction will be presented.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: [Signature] Date: 07/06/12

Discipline Specific Curricula Committee: [Signature] Date: 08/06/12

Curricula Committee: [Signature] Date: 10/5/2012

07/03/12

(Revised 10/12/2010)
Experimental Course Form (EC)

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: History and Political Science
Discipline and Course Number: Pol. Sci. 301
Course Title: Politics of the Middle East
Abbreviated Title (24 spaces or less): Middle East Politics
Instructor(s): Dr. Tsaggar Isaac
Credit Hours: Lectures 3, Lab: 0, Total: 3
Prerequisites: Political Science 90, 225, 226, or History 176

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Politics of the Middle East explores the significant events that have framed modern political realities in the Middle East. The course will begin with the end of the Ottoman Empire in the First World War and then explore the colonial experiences of the Middle Eastern people under British and French rule and the post-colonial geostrategic alignments and the creation of the State of Israel.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) 2) 3)
4) 5) 6)

Department Chair: [Signature]
Discipline Specific Curricula Committee: [Signature]
Curricula Committee: [Signature]

Date: 7/5/12
Date: 8/17/12
Date: 10/5/2013

07/05/12
(Revised 10/13/2013)

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Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: English & Tech Comm
Discipline and Course Number: 381
Course Title: Myth & Folklore
Abbreviated Title (24 spaces or less): Myth & Folklore

Instructor(s): Bryan, Eric
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: Eng 20 and one semester of college literature

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
This course traces the development of myth and folklore from Ancient Mesopotamia through nineteenth century Europe. Students will be challenged with three questions along the way: What do myth and folklore do? Why were they important to earlier societies? Is myth alive today?

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

Department Chair: Date:
Discipline Specific Curricula Committee: Date:
Curricula Committee: Date:

07/13/12 (Revised 10/12/2010)
Myth and Folklore
English 2xx/3xx
Spring/Fall Semester 201x
Dr. Eric Bryan
Class Location:
Office: H-88 221
Office Hours:
Email: bryane@msst.edu
Phone: 573.341.4622
Class Time:

Required materials


A Large Quantity of Selected Readings. (Found on Blackboard).

Course Description

The modern world tends to view myth and folklore with a skeptical eye. Myth has variously been understood as a lie, a metaphor, a script for ritual, or outdated narrative meant to preserve cultural meanings and morals. Folk and fairy tales are typically seen as little more than children's stories, "old wives' tales," or campfire fodder. The cultures who subscribe to myths have been viewed as primitive, and those who attend to folktales are generally thought to be naive, outdated, or uneducated.

Yet, myth and folklore, however they may now be described, seem to have served a vital function in every society that has ever called itself human... with the exception of our own. This course tests our modern skepticism about myth and folklore, tracing their development from the earliest sources in Ancient Mesopotamia through Europe and up to the nineteenth century, when our modern world might be said to have begun—and when myth might be said to have died. Students will be asked to answer three essential questions along the way: 1) What do myth and folklore do? 2) Why was it so important to those long-gone societies? 3) Is myth alive anywhere today?

[Brief description: This course traces the development of myth and folklore from Ancient Mesopotamia through nineteenth century Europe. Students will be challenged with three questions along the way: What do myth and folklore do? Why were they important to earlier societies? Is myth alive today?]

Student Responsibilities

Class Participation (10%): Active discussion of the reading is vital to success in this course.
Three Quizzes (total: 15%): Students must master a few essential concepts of folklore and mythology in order to write a successful research paper. The three quizzes verify that students have a sufficient understanding of these concepts to proceed with their research.

Preliminary Study (15%): A 4 or 5 page essay meant to act as a proposal for the research project. Rather than selecting a particular text (unless one is quite certain), I suggest conducting the preliminary study on a certain issue or folk motif. For instance, a student who wishes to write on the role of gender in mythology should therefore present an overview of relevant thoughts on the issue, as well as explain why further analysis will contribute to those thoughts. Students will generally be expected to use this study as a springboard for the research project. (Note: A bibliography of secondary materials will be posted online to assist students with this essay. I strongly recommend selecting sources from this bibliography.)

Midterm and Final Examinations (20% each): Both the midterm and final examinations test the students' knowledge of the primary sources studied throughout the course. Students will use examples from the sources to answer questions on concepts discussed during class time.

Research Project (30%): A 7 or 8 page essay meant to contribute original thought to the study of myth and folklore in the Middle Ages. Though I prefer students to write on one of the essential questions of the class, I will occasionally permit students to branch out into ancillary issues. Using the preliminary study to create a critical and cultural context, students should present a well-balanced, focused thesis by examining several texts discussed in class. (Note: It will be acceptable to move in a new direction for the research project, but only with my approval. Obviously changing topic will put the student at a disadvantage.)

OTHER CONSIDERATIONS

Attendance: Students are expected to attend class. A student’s grade will be lowered ½ a letter grade for each unexcused absence above five. Missing more than 15% of classes may result in a failing grade. If the student surpasses the allotted number of absences, the instructor reserves the right to reflect absences in final grades based on his/her interpretation of the individual student’s circumstances and overall performance in the course.

Tardiness: Students who are late three times will accumulate an absence. Students who are more than fifteen minutes late to class are considered absent. Students should also be aware that it is their responsibility to consult the instructor about missed work and class. If students have a serious situation that prevents them from meeting deadlines or being in class on time, students should seek a conference with the instructor of the course to discuss options/solutions to the problem. If students arrive late but before the fifteen
minute cut-off, they are responsible for checking with the instructor, after class, to ensure
they are not counted absent.

Late Papers and Assignments: Students should plan to turn in assignments at the
beginning of the appropriate class period. Students are also responsible for having
completed readings by the dates and times assigned. Failure to complete and submit
work by the deadline may result in the loss of some credit for the work. These penalties
vary with respect to the importance of the assignment. Students will lose ½ of a letter
grade for each day the essay is late, and smaller assignments will be penalized on a case-
by-case basis. As with attendance, requests for excused late submittals must be
accompanied by documentation of a medical problem, a personal emergency, or a
university obligation. Note: having an absence excused does not necessarily mean that
the instructor will accept a late submittal without a penalty – each is a separate matter.
Students who know in advance that they will miss class should expect to submit their
work early if they cannot submit it on time (or they should arrange for the delivery of that
work so that it is submitted on time).

Classroom Etiquette: Because a productive learning environment is essential to all
members of the class, I assume that polite and considerate behavior will be the norm in
all classrooms. No perspectives will be ignored in our classroom. While I encourage
aggressive and sincere responses in our discussion, I also expect all of us to speak
courteously and articulately with one another. When investigating and evaluating
perspectives different from one’s own values, we must conduct ourselves and respond
to others in a respectful manner. NOTE: PLEASE TURN OFF CELL PHONES
AND PAGERS BEFORE COMING TO CLASS.

Academic Honesty: Students are expected to be honest in their academic work. If you
plagiarize or commit any form of academic dishonesty and are caught, you may face
severe penalties, including, but not limited to, a failing grade for the assignment, a failing
grade in the course, disciplinary probation, suspension, or expulsion from the University.
In addition, you are ethically responsible to report any incidents of plagiarism of which
you are aware. If you are unsure of what constitutes academic dishonesty, see the MST
website on student standards of conduct at
http://studentlife.mst.edu/organizations/handbook/standard.html. Also see Page 30 of the
Student Academic Regulations Handbook, found at the website
registrar.mst.edu/academicregs/index.html, which offers descriptions of academic
dishonesty including cheating, plagiarism or sabotage.

USEFUL INFORMATION

Academic Alert System: If you are in danger of failing the course, I will use the
Academic Alert System to notify you and your advisor. The purpose of this system is to
improve your overall academic success by informing you and your supporting faculty of
your need to get some help with your coursework.
Academic Support Programs: The University offers a range of facilities to help you learn how to study better. Check out the home page of Academic Support Programs, http://learn.mst.edu and learn about getting an individual “Learning Consultation,” about “Resource Learning Centers” and the Student Learning Centers for quiet study.

Disability support services: If you have a documented disability and anticipate needing accommodations in this course, please meet with me at the beginning of the semester. You will need to request that the Disability Support Services staff send a letter to me verifying your disability and specifying the accommodation you will need. The Disability Support Services (http://dss.mst.edu) is located in 204 Norwood Hall (341-4211), and their e-mail is dss@mst.edu.
Tentative Reading Schedule:

UNIT 1: FOLKLORISTICS AND MYTHOLOGY

Week 1

Week 2
Jan Assmann, Cultural Memory and Early Civilization (excerpt on Blackboard)

UNIT 2: CREATION AND CIVILIZATION IN THE NEAR EAST

Week 3
Genesis 1-3, Enuma Elish, Prose Edda; The Epic of Gilgamesh, Genes 1-6 (excerpts on Blackboard)

Week 4
Upanishads (excerpts on Blackboard)

UNIT 3: PREHISTORY IN BRITAIN, DENMARK, AND SWEDEN

Week 5

Week 6


Week 7


Arthurian Excerpts (on Blackboard)

Week 8


Week 9

Tuesday, (paper 1 due). HW: Catch-up and review for Midterm Examination. MIDTERM EXAMINATION.

UNIT 4: GERMANIC SOURCES

Week 10

Jakob Grimm, Teutonic Mythology (Excerpts on Blackboard)

Brothers Grimm, Fairy Tales (Excerpts on Blackboard)

The philological question and the nineteenth century folklore movement

Week 11

Jakob Grimm, Teutonic Mythology (Excerpts on Blackboard)

Grimm Brothers, Grimm's Fairy Tales (Excerpts on Blackboard)

Anglo Saxon love (Excerpts on Blackboard)

UNIT 5: NORSE SOURCES

Week 12


Week 13

Scandinavian folklore collection (Excerpts on Blackboard)

UNIT 6: WITCHCRAFT AND NEO-PAGANISM
Week 14
*Malleus Maleficarum* (trans.: *The Hammer of Witches*; excerpts on Blackboard)

Week 15
Witchcraft in England, Germany, and Scandinavia. Margaret Murray and the neo-pagan movement

Final Exam: TBA
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Department: English and Tech Com
Discipline and Course Number: English 301
Course Title: GLOBAL FOODS IN LITERATURE
Abbreviated Title (24 spaces or less): GLOBAL FOODS IN LIT
Instructor(s): Kathryn Dolan
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: Ling 20 and one semester of college literature

Semester(s) previously taught: N/A

Brief Course Description: (40 words or less)
Food is where culture meets nature. The need for food is universal, but cuisine is potently regional. We will look at writers such as Hemingway, Kinkaid, Bourdain, and the criticism of Bourdieu, Gigante, and Geertz to study key cultural issues.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1)
2)
3)
4)
5)

Department Chair: [Signature] Date: 08/06/12
Discipline Specific Curricula Committee: [Signature] Date: 08/07/12
Curricula Committee: [Signature] Date: 10/05/12

(Revised 10/12/2010)

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GLOBAL FOODS: THE CARIBBEAN
SPRING 2013
Syllabus and Class Schedule

Contact Information
Instructor: Kathryn Dolan
Class Time:
Location:
Email: dolankc@mst.edu
Office:
Office hours:
Mailbox: English Office

Required Texts (available at bookstore)
Anthony Bourdain, Gone Bamboo
Ernest Hemingway, The Old Man and the Sea
Holly Hughes, Best Food Writing, 2011
Jamaica Kincaid, A Small Place
Sidney Mintz, Sweetness and Power
Tom Standage, A History of the World in Six Glasses
Ann Vanderhoof, An Embarrassment of Mangoes
Additional required readings will be posted on Blackboard

Grades
Research Paper: 25%
Creative Paper: 25%
Final Project: 30%
Travel Journal: 10%
Quizzes and Attendance: 10%

Due: Due: Due: Due following Bahamas travel
Due: Due: Due throughout semester

Course Goals and Expectations
Goals: Food is one of the most important cultural markers, as it is the site where culture meets nature, where the outside and the inside meet. Natural materials are made into cultural artifacts through how they are prepared as the food we eat. The need for food is universal, but cuisine is potently regional. Therefore, the study of food in literature can help us to understand key cultural issues that can be translated into other aspects of our 21st century lives. Historically, French people were called frogs, Germans called Krauts, and Brits called Limeys based on foods generally associated with their nations. Is it true that we are “what we eat”? We will look at the writings of Hemingway, Kincaid, Bourdain, and others as well as the criticism of Bourdieu, Ginzte, and Geertz to study representations of this key

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cultural marker and what it can teach us as 21st century cultural critics.

Read: Warning—this is a reading intensive course I expect you to purchase the required texts immediately, do the readings before coming to class, and always bring the texts being discussed to class with you.

Attend: Attendance is important. Be on time. Attendance and in-class writings often occur at the beginning of the hour, and lateness is disruptive and disrespectful. You are responsible for catching up on anything you might have missed in a manner that does not disrupt class. Participate: Bring materials for in-class writings and notes. Be ready to give your opinion, which is important and will be expected. Part of speaking is listening to your classmates carefully and then contributing intelligently, not just making declarations. Be receptive, be critical, and always be respectful.

Write: This is a writing focused class. You will write continuously throughout the semester. Thesis statements, reading assignments, papers, and additional reading assignments will make up the writing requirements of the course. All papers—including the reading assignments—must conform to MLA guidelines: double-spaced, one-inch margins, 12pt font, and a Works Cited page. See Hacker’s A Writer’s Reference for details.

Grading Policy: 1 grade on a +/- letter scale, S/U when available. If students miss the last week of class because of an emergency, they may petition for an “I.” I will determine these on a case-by-case basis.

Late Papers: Weekly reading responses will not be accepted late. Papers turned in late will drop 1/3 of a grade for every day they are late—not only counting class days. After 10 days, late papers will not be accepted for credit.

Plagiarism: Plagiarism—taking credit for another’s work—is not allowed. The first instance of intentional plagiarism will lead to an “F” in that assignment. Any further instances of plagiarism will cause the student to be dropped from the class. Don’t do it!

In-class behavior: Participation involves respect. Cell phones, iPods, PDAs, and other electronic devices must be turned off in class. Side conversations are disrespectful and will hurt your participation grade.

Email: Email is definitely the best way to get in touch with me. I try to check my email within 24 hours during the work week.

Other: If you are a student with a disability and would like to discuss special academic accommodations, please contact me during the first week of class.

THE BAHAMAS: This course allows students to join other S&T departments to study abroad in The Bahamas, researching on the island of San Salvador. I encourage students to take advantage of this wonderful opportunity!

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Class Schedule
Schedule is tentative and subject to change

1) Class Introduction. Sign-up sheets. Introduce Theme—Caribbean, The Bahamas—Trip in Spring
   assignment: read Columbus, De Vaca, De Montaigne

2) Global Food Studies
   assignment: read Gigante, Bourdieu, Geertz
8) Theories of Food in Western History and Culture
assignment: read Mintz, Sweetness and Power

4) September 7: Agriculture and Imperialism
assignment: continue Mintz, Sweetness and Power

5) When Is Food a Beverage? Global Food and Drink
assignment: read Tom Standage, A History of the World in Six Glasses

6) Consumption in the U.S.
assignment: continue Tom Standage, A History of the World in Six Glasses

7) Caribbean Culture
assignment: read Jamaica Kincaid, A Little Story
in the West Indies—across classes

8) Caribbean Agriculture and Diet
assignment: read Ann Vanderhoof, An Embarrassment of Mangoes

9) Religion and Food
assignment: continue Ann Vanderhoof, An Embarrassment of Mangoes

10) Food and Tourism
assignment: read Anthony Bourdain, Gone Bamboo

11) Communication: Figurative and Literal Process
assignment: continue Anthony Bourdain, Gone Bamboo

12) Culture, Fishing and Myth-Making
assignment: read Ernest Hemingway, The Old Man and the Sea

13) Food Writing and Eco-Criticism
assignment: read selection from Holly Hughes, The Best Food Writing, 2011

14) Food Writing and Technology
assignment: read selection from Holly Hughes, The Best Food Writing, 2011

15) The "World" of Global Food Politics
assignment: student presentations

16) Finally, have a great summer!!!
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**  
(Check all changes.)

- New Course [x]  
- Course Deletion [ ]  
- Credit Hours [ ]  
- Prerequisites [ ]

**Course Information**  
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. **Department:** Mining and Nuclear Engineering  
   **Present:** MIN ENG 401  
   **Proposed:** MIN 420

2. **Discipline and Course Number:**  
   **Present:** MIN ENG 401  
   **Proposed:** MIN 420

3. **Course Title:**  
   **Present:** Truck Haulage Engineering and Haul Roads Efficiency  
   **Proposed:**

   **Abbreviated Course Title:** Tr Haulage Engr

   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. **Catalog Description**  
   (300 Character Spaces or Less.)

   **Present:** This course will provide understanding into haul road design and safety requirements; and equip students with the ability to select, design, implement and supervise truck haulage in surface mines. It will include truck-road-service points; efficiency, productivity and economics; ergonomics and risks.

   **Proposed:**

5. **If course requires field trip check box:** [ ]

6. **Credit Hours:**  
   **Present:** Lecture: 3  
   **Lab:** 0  
   **Total:** 3

7. **Prerequisites:**  
   **Present:** Consent of Instructor

   **Proposed:**

8. **Required for Majors:** [ ]  
   **Elective for Majors:** [x]

9. **Justification:**

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):** F508, FS2011, FS2012

11. **List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.**

   1)  
   2)  
   3)  
   4)  
   5)  

   **Recommended by Department**  
   [Chair signature]  
   Date: 04/10/12

   **Recommended by Discipline Specific Curricula Committee**  
   [Chair signature]  
   Date: 05/26/12

   **Approved by Curricula Committee:**  
   [Chair signature]  
   Date: 10/5/12

   **Approved by Faculty Senate:**  
   [Chair signature]  
   Date: 10/3/2012

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Approved as an EC (10/3/2012).