



**Agenda**

**Campus Curricula Committee Meeting**

**October 3, 2012**

**12 p.m., Room 117 Fulton Hall**

**Review of submitted DC forms:**

DC 0417, Engineering Management, Bachelor of Science, effective Fall 2013.

DC 0419, Engineering Management, Bachelor of Science, Industrial Engineering Emphasis, effective Fall 2013.

DC 0420, Engineering Management, Bachelor of Science, General Emphasis, effective Fall 2013.

DC 0421, Engineering Management, Engineering Management Minor, effective Fall 2013.

DC 0424, Applied Mathematics, Bachelor of Science, effective Fall 2013.

DC 0425, Applied Mathematics, Bachelor of Science, Actuarial Science Emphasis, effective Fall 2013.

DC 0426, Electrical Engineering, Bachelor of Science, Power and Energy Emphasis, effective Fall 2013.

DC 0427, Electrical Engineering, Bachelor of Science, effective Fall 2013.

DC 0428, Electrical Engineering, Electrical Engineering Minor, effective Fall 2013.

DC 0429, Engineering Management, Bachelor of Science, effective Fall 2013.

**Review of submitted CC forms:**

CC 8245, Engineering Management 147, Engineering Accounting and Finance, effective Spring 2013.

CC 8246, Engineering Management 213, Introduction to Complex System Management, effective Fall 2013.

CC 8247, Engineering Management 253, Operations and Production Management, effective Spring 2013.

CC 8248, Engineering Management 266, Quality Philosophies and Methods, effective Spring 2013.

CC 8249, Engineering Management 309, Six Sigma, effective Spring 2013.

CC 8250, Engineering Management 356, Industrial System Simulation, effective Spring 2013.

CC 8251, Engineering Management 366, Business Logistics Systems Analysis, effective Spring 2013.

CC 8252, Engineering Management 372, Production Planning And Scheduling, effective Spring 2013.

CC 8253, Engineering Management 381, Management And Methods In Reliability, effective Spring 2013.

CC 8254, Engineering Management 385, Statistical Process Control, effective Spring 2013.

CC 8255, Geophysics 389, Seismic Data Processing, effective Spring 2013.

CC 8256, Geophysics 488, Advanced Seismic Interpretation, Fall 2013.

CC 8257, Geophysics 377, Seismic Interpretation, Fall 2013.

CC 8258, Mining Engineering 408, Belt Conveying In Mines, effective Spring 2013.

CC 8259, Mining Engineering 420, Truck Haulage Engineering and Haul Roads Efficiency, effective Spring 2013.

CC 8260, Biological Sciences 271, Issues in Public Health, effective Spring 2013.

CC 8261, Biological Sciences 461, Advanced Cell Biology, effective Spring 2013.

CC 8266, Electrical Engineering 454, Power Converter Modeling and Design, effective Spring 2013.

CC 8267, Computer Engineering 404 / Computer Science 434 / Systems Engineering 404, Data Mining And Knowledge Discovery, effective Spring 2013.

CC 8268, Computer Science 434/ Computer Engineering 404/ Systems Engineering 404, Data Mining & Knowledge Discovery, effective Spring 2013.

CC 8271, Technical Communication 411, International Technical Communication, effective Spring 2013.

CC 8272, Computer Science 256, Programming Languages and Translators, effective Spring 2013.

CC 8274, Electrical Engineering 392, Electrical Engineering Senior Project II, effective Fall 2013.

CC 8275, Computer Science 445, Robotic Sensors And Controls, effective Spring 2013.

CC 8276, Electrical Engineering 488, / Computer Science 445 / Computer Engineering 488, Advanced Topics in Robotics, effective Spring 2013.

CC 8277, Computer Engineering 488 / Computer Science 445 / Electrical Engineering 488, Advanced Topics in Robotics, effective Spring 2013.

CC 8278, Information Science and Technology 335, Fundamentals of Mobile Technology for Business, effective Spring 2013.

CC 8279, Information Science and Technology 435, Mobile Data Management, effective Spring 2013.

**Review of submitted EC forms:**

EC 2414, Geological Engineering 301, Soil Mechanics for GeoProfessionals, effective Spring 2013.

EC 2415, Political Science 301, Constitutional Law: Government Powers and Civil Liberties, effective Spring 2013.

EC 2416, Mining Engineering 301, Advanced Mineral Exploration, effective Spring 2013.

EC 2417, Explosives Engineering 301, Display Fireworks Manufacturing, effective Fall 2013.

EC 2418, History 301, The Cultural History of Economic Depression in America, effective Spring 2013.

EC 2419, History 301, The History of Christianity and Islam, effective Spring 2013.

EC 2420, Math 301, Introduction to Numerical Methods for Differential Equations, effective Spring 2013.

EC 2421, Mining Engineering 401, Heavy Mining Machinery Maintenance and Fatigue, effective Spring 2013.

EC 2422, Mining Engineering 401, Mine Automation, effective Spring 2013.

EC 2423, Mining Engineering 401, Mining Machinery Event Simulation, effective Spring 2013.

EC 2424, Electrical Engineering 301, Introduction to Radar Systems, effective Spring 2013.

EC 2425, Mining Engineering 401, Geostatistics, effective Spring 2014.

EC 2426, Political Science 301, Politics of the Middle East, effective Spring 2013.

EC 2428, English 301, Myth and Folklore, effective Spring 2013.

EC 2429, English 301, Global Foods in Literature, effective Spring 2013.

**Tabled Items:**

CC 8232, Technical Communication 311, International Dimensions of Technical Communication.

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.

DC # 0417-2012-Emgt-000-00

Effective Year: 2013  
Effective Term: Summer  Fall xx 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:  
Engineering Management

Department: EMSE

**Briefly describe action requested (Attach documentation as appropriate):**

Emgt ← Add ~~EMSE~~ 213 (new 3 credit hour course CC submitted with this request) to the current 26 credit hours of required Engineering Management core courses. Concurrent to this change, the Industrial Engineering, Management of Technology and General Emphasis areas will remove 3 credit hours of EMSE technical electives (Separate DC forms submitted with this request). See attached documentation.

Recommended by Department: David Ende  
(Chair signature)

Date: 2/27/12

Recommended by: Steph Rap  
Discipline Specific Curricula Committee (Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

Effective Term: Summer  Fall xx Spring

(Creating or modifying a degree program must be effective for a Fall term)

DC # 0419-2012-Emgt-000-00

## 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:

Industrial Engineering Emphasis Area

Department: EMSE

Briefly describe action requested (Attach documentation as appropriate):

The Industrial Engineering Emphasis area credit hour requirements will change from 21 credit hours to 18 credit hours. This change is being made in order to add a new 3 credit hour course (EMSE 213) to the current 26 credit hours of EMSE required core courses. The 12 credit hours of required courses (EMSE 257, 311, 356 and 382) will not change. The EMSE technical electives will be reduced to 6 credit hours from the current required 9 credit hours. This change enables EMSE to maintain 3 credit hours of Free Electives as a part of the 128 required credit hours.

Emgt  
Emgt

Recommended by Department: David Ende  
(Chair signature)

Date: 2/27/12

Recommended by: Joseph R. Raper  
Discipline Specific Curricula Committee (Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

Effective Term: Summer  Fall xx Spring

(Creating or modifying a degree program must be effective for a Fall term)

DC #0420-2012-Emgt-000-00

## 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:**

General Emphasis Area

**Department:** EMSE

**Briefly describe action requested (Attach documentation as appropriate):**

The General Emphasis area credit hour requirements will change from 21 credit hours to 18 credit hours. This change is being made in order to add a new 3 credit hour course (~~EMSE 213~~) to the Emgt current 26 credit hours of EMSE required core courses. The 15 credit hours Engineering Area Courses (Engineering Discipline) will remain the same. The EMSE technical electives will be reduced to 3 credit hours from the current required 6 credit hours. This change enables EMSE to maintain 3 credit hours of Free Electives as a part of the 128 required credit hours.

Recommended by Department: Dud Ende  
(Chair signature)

Date: 2/27/12

Recommended by: Stepha Papp  
Discipline Specific Curricula Committee (Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

2013

Effective Year: ~~2012~~  
Effective Term: Summer  Fall xx  Spring   
(Creating or modifying a degree program must be effective for a Fall term)

DC # 0421-2012-Emgt-000-00

### 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: David Ende  
(Chair signature)

Date: 3/28/12

Recommended by: Stephen A. Dwyer  
Discipline Specific Curricula Committee (Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: 2013

DC # 0424-2012-Math-000-00

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:

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:

Current: (1) Math 305, 306, 307, 308; (2) Math 315, 330, 351, 385; (3) Math 302, 303, 322, 325, 351, 383; (4) Stat 343, 344, 346, 353; (5) Cmp Sc 228, 328, 329, Stat 346, Math 303, Econ 321.

Proposed: (1) Math 305, 306, 307, 308; (2) Math 305, 315, 330, 351, 385; (3) Math 302, 303, 322, 325, 351, 383; (4) Stat 314, 343, 344, 346, 353, 355, 356; (5) Cmp Sc 228, 328, 329, Stat 314, 346, 355, 356, Math 303, 337.

Recommended by Department: Leon M. Hull  
(Chair signature)

Date: 4/30/2012

Recommended by: Daniel J. Pitt  
Discipline Specific Curricula Committee (Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

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:

**Current:** (1) Math 305, 306, 307, 308; (2) Math 315, 330, 351, 385; (3) Math 302, 303, 322, 325, 351, 383; (4) Stat 343, 344, 346, 353; (5) Cmp Sc 228, 328, 329, Stat 346, Math 303, Econ 321.

**Proposed:** (1) Math 305, 306, 307, 308; (2) Math 305, 315, 330, 351, 385; (3) Math 302, 303, 322, 325, 351, 383; (4) Stat 314, 343, 344, 346, 353, 355, 356; (5) Cmp Sc 228, 328, 329, Stat 314, 346, 355, 356, Math 303, 337.

(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.

DC # 0425-2012-Math-000-a

Effective Year: 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:  
B.S. in Applied Mathematics, Actuarial Science emphasis

Department: Mathematics and Statistics

Briefly describe action requested (Attach documentation as appropriate):

Current: Stat 343, Stat 344, Stat 346, Stat 353, Econ 121, Econ 122, Econ 222, Econ 321, pass the first Actuarial Science Exam.

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: Leon M Hall  
(Chair signature)

Date: 4/30/2012

Recommended by: Daniel Jantz  
Discipline Specific Curricula Committee (Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

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.

Effective Year: FS201<sup>3</sup>

DC #0426-2012-EE-000-00

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 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 <sup>description</sup> ~~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: *Kelvin E...*  
(Chair signature)

Date: 13 Aug 2012

Recommended by Discipline Specific Curricula Committee: *Steph A Roper*  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: FS2013

DC #0427-2012-EE-000-00

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: Kevin Emler  
(Chair signature)

Date: 13 Aug 2012

Recommended by: Steph A Repas  
Discipline Specific Curricula Committee (Chair signature)

Date: 8-26-12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

Effective Term: Summer  Fall  Spring

(Creating or modifying a degree program must be effective for a Fall term)

DC #0428-2012-EE-000-00

## 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 EI 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 EI Eng Advancement Exam I (EI Eng 151 Final) with a C or better\*

Pass EI Eng 153 and EI Eng Advancement Exam II with a C or better

Pass 12 additional hours of EI Eng coursework excluding EI Eng 28X, 38X, and 39X. At least 3 lecture hours at the 3XX level are required. A C or better is required for ~~all~~ all 12 hours. No transfer courses and no more than 3 hours of EI Eng 200 or EI 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 EI Eng Advancement Exam I if a student has prior circuits coursework or experience. Otherwise, the student must pass EI Eng 151.

Minor approved per ECE Faculty 4/16/2012.

Recommended by Department: *Kelvin Escobar*  
(Chair signature)

Date: 13 Aug 2012

Recommended by Discipline Specific Curricula Committee: *Stephen Raper*  
(Chair signature)

Date: 8-26-12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

2013

Effective Year: 2012  
Effective Term: Summer  Fall  Spring   
(Creating or modifying a degree program must be effective for a Fall term)

DC # 0429-2012-Emgt-000-00

### 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:**  
Change of "Free Elective Footnote" paragraph, page 139 of current catalog

Change of Footnote 3 in current catalog - Free Electives

**Department:** EMSE

**Briefly describe action requested (Attach documentation as appropriate):**

The second sentence of the Free Elective Footnote paragraph currently states: "Each student is required to take six hours of free electives in consultation with his/her academic advisor."

The second sentence should be changed to: "Each student is required to take three hours of free electives in consultation with his/her academic advisor." The remaining sentences in the paragraph should remain the same.

The first sentence of Footnote 3 currently states the following: "Each student is required to take six hours of free electives in consultation with his/her academic advisor."

The first sentence should be changed to the following: "Each student is required to take three hours of free electives in consultation with his/her academic advisor."

The remaining sentences/statements of the Footnote 3 will remain the same.

Recommended by Department: David Entle  
(Chair signature)

Date: 3/28/12

Recommended by: Steph Daper  
Discipline Specific Curricula Committee (Chair signature)

Date: 5/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: <sup>2013</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8245-2012-Emgt-147-32

### 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 <sup>Eng Mgt</sup> Proposed:  
3. Course Title: Present: Engineering Accounting and Finance  
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: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites: <sup>Eng Mgt</sup>  
Present: 137

Proposed: Emgt 137, or understanding of engineering economic principles.

8. Required for Majors:  Elective for Majors:

9. Justification: <sup>ET</sup> EMSE 147 will replace <sup>ET</sup> EMSE 352 as a component of the Minor in Engineering Management. Course content in <sup>ET</sup> EMSE 147 is nearly the same as <sup>ET</sup> EMSE 352. In addition, <sup>EMGT</sup> EMSE 352 will no longer be offered by the department. <sup>ET</sup>

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 David Ende  
(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee Steph...  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Term: Summer  Fall  Spring

CC File # 8246-2012-Emgt-213-10

# 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 : ENG MGT 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: none

8. Required for Majors:  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):

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 Dave Ende  
(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee John Ryan  
(Chair signature)


Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



EngMgt 213 – Introduction to Complex System Management  
Tuesdays, Thursday 12:30 – 1:45 PM  
Fall 2013

Instructor: Dr. Steven Corns  
[cornss@mst.edu](mailto:cornss@mst.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](mailto: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.

Effective Year: <sup>2013</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8247-2012-Emgt-253-32

### 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: 253 <sup>Eng Mgt</sup> 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: Lecture: Lab: Total:  
Proposed: 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. ~~prerequisite~~

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 Dad [Signature]  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: 2/27/12  
Date: 8/26/12  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8248-2012-Emgt-266-32

### 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: 266 <sup>Emgt</sup> Proposed:  
3. Course Title: Present: Quality Philosophes and Methods  
Proposed: Quality

Abbreviated Course Title: Qty  
(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, initialed by Dept. Chair, if signature does not appear below.

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

Recommended by Department David Ende  
(Chair signature)

Date: 4/2/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: <sup>2013</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8249-2012-Emgt-309-32

# 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 MGT*

3. Course Title: Present: *Six Sigma*  
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: 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 *David Ende*  
(Chair signature)

Date: 2/27/12

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

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8250-2012-Emgt-356-32

# 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: 356 <sup>ENG MET</sup> Proposed:
- 3. Course Title: Present: Industrial System Simulation 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:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

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. 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 David Ende  
(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: <sup>2017</sup> ~~2012~~  
Term: Summer  Fall  Spring

CC File # *8251-2012-Emet-366-32*

# 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 : 366 *ENEMET* Proposed:

3. Course Title: Present: Business Logistics Systems Analysis  
Proposed: Supply Chain Management Systems

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

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

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 management 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: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

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 *David Emke*

(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee *Alfonso Rupa*

(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> ~~2012~~  
Term: Summer  Fall  Spring

CC File # 8252-2012-Emgt-372-32

### 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 <sup>Eng Mgt</sup> Proposed:  
3. Course Title: Present: Production Planning and Scheduling 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: 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 David Ende  
(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> ~~2012~~  
Term: Summer  Fall  Spring

CC File # *8253-2012-Emgt-381-32*

### 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: 381 *EMGT* Proposed:  
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: Lecture: Lab: Total:  
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 *Dan Ende*  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee *[Signature]*  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: *2/27/12*  
Date: *8/26/12*  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> ~~2012~~  
Term: Summer  Fall  Spring

CC File # 8254-2012-Emgt-385-32

### 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: 385 <sup>Eng Mgt</sup> Proposed:  
3. Course Title: Present: Statistical Process Control 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: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present: Stat 213, 215.

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 [Signature]  
(Chair signature)

Date: 2/27/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 8/26/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2012   
Term: Summer  Fall  Spring

CC File # 8255-2012-Geop-389

# 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, initialed by Dept. Chair, if signature does not appear below.

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

Recommended by Department *Ralph Apor* Date: 4-3-12  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee *Daniel J. Smith* Date: 9/7/2012  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

(Revised 1/29/09)

Effective Year: 2012  
Term: Summer  Fall  Spring

CC File # 8256-2012-Geop-488-31

# 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:  Elective for Majors:

9. 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, initialed by Dept. Chair, if signature does not appear below.

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

Recommended by Department Ralph Now  
(Chair signature)

Date: 4-3-12

Recommended by Discipline Specific Curricula Committee Daniel Jank  
(Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2012  
Term: Summer  Fall  Spring

CC File # 8257-2012-Geop-377-31

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

### 4. 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:

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

6. Credit Hours: Present: Lecture: 1 Lab: 2 Total: 3  
Proposed: Lecture: 2 Lab: 1 Total: 3

7. Prerequisites:  
Present: Geop 270

Proposed:

8. Required for Majors:  Elective for Majors:

9. Justification: More hours are needed for lecture. Some of 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, initialed by Dept. Chair, if signature does not appear below.

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

Recommended by Department Ralph Now  
(Chair signature)

Date: 4-3-12

Recommended by Discipline Specific Curricula Committee Daniel Smith  
(Chair signature)

Date: 9/9/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: <sup>2013</sup> ~~2012~~  
Term: Summer  Fall  Spring

CC File # 8258-2012-Min-408-10

# 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: Mining and Nuclear Engineering

2. Discipline and Course Number: Present : ~~MIN 408~~ Proposed: MIN 408

3. Course Title: Present: Belt Conveying in Mines  
Proposed: Conveying

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

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

Present: Intro:belt conveyor components, est of required conveyor drive power/conveying rate. Friction drives/ belt tensions, idlers transfer points, belt conveyor for a specific mining application conveyor operations/ maintenance/ steep angle conveyor; types, properties application tube pipe.

Proposed:

5. If course requires field trip check box:

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

7. Prerequisites:  
Present: Consent of Instructor

Proposed:

8. Required for Majors:  Elective for Majors:

9. Justification:

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SS07,SS09

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: 04/10/12

Recommended by Discipline Specific Curricula Committee [Signature]

Date: 05/26/12

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_



Effective Year: <sup>2012</sup> 2012  
Term: Summer  Fall  Spring

CC File # 8259-2012-MIN-420-10

# 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: Mining and Nuclear Engineering

2. Discipline and Course Number: Present: ~~MIN 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 requirement<sup>g</sup>; 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: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present: Consent of Instructor

Proposed:

8. Required for Majors:  Elective for Majors:

9. Justification:

10. Semesters previously offered as an experimental course (101, 201, 301, 401): FS08, FS2011, FS<sup>5</sup>2012, FS<sup>0</sup>2012

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]

(Chair signature)

Date: 04/10/12

Recommended by Discipline Specific Curricula Committee [Signature]

(Chair signature)

Date: 08/26/12

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Term: Summer  Fall  Spring

CC File # 8260-2012-BioSci-271-10

# 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  
2. Discipline and Course Number: Present: ~~201~~ 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.)

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

AS

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~~ <sup>security</sup> 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): <sup>10</sup> SP2011, <sup>8</sup> 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 [Signature]  
(Chair signature)

Date: 4/6/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

CC File # *8261-2012-BioSci-461-3*

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

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

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: Lecture: 3 Lab: 0 Total: 3  
Proposed: Lecture: 3 Lab: 0 Total: 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 *[Signature]*  
Recommended by Discipline Specific Curricula Committee *Daryl Joub*  
Approved by Curricula Committee: \_\_\_\_\_  
Approved by Faculty Senate: \_\_\_\_\_

Date: 4/6/12  
Date: 9/7/2012  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

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: 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 *Reh Erich* Date: 30 Apr 12  
 (Chair signature)  
 Recommended by Discipline Specific Curricula Committee *Steph LeRou* Date: 8-26-12  
 (Chair signature)  
 Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)  
 Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)

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: 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 *MSJ* 2) SysEng 404 *DLE* 3)
- 4) 5) 6)

Recommended by Department *Kate Emmer* Date: 9 July 2012  
 (Chair signature)  
 Recommended by Discipline Specific Curricula Committee *Steph L. Papp* Date: 8-26-12  
 (Chair signature)  
 Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)  
 Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)

CC File # 8268-2012-08434-33

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 : 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, 201, 301, 401):

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

1) CpE 404 *DKE* 2) SysEng 404 *DLE* 3)

4) 5) 6) Recommended by Department \_\_\_\_\_  
(Chair signature)

Date: Jun 28, 12

Recommended by Discipline Specific Curricula Committee David Jant  
(Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

Term: Summer  Fall  Spring

CC File # 8271-2012-TCom-411-33

### 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: English and Tech Com
- 2. Discipline and Course Number: Present: TCH COM 411 Proposed: TCH COM 411
- 3. Course Title: Present: International Technical Communication  
Proposed: Adv International Technical Communication

Abbreviated Course Title: Adv International Tech COM  
(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.

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, initialed by Dept. Chair, if signature does not appear below.

- 1)
- 2)
- 3)
- 4)
- 5)

Recommended by Department: [Signature]

Date: 8/19/12

Recommended by Discipline Specific Curricula Committee: [Signature]

Date: 8/17/12

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_

Effective Year: 2013  
Term: Summer  Fall  Spring

CC File # 8272-2012-15-256-3

# 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 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.

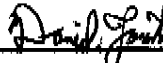
### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

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

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

Recommended by Department   
(Chair signature)

Date: June 26, 12

Recommended by Discipline Specific Curricula Committee   
(Chair signature)

Date: 9/7/2012

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



CC File # 8274-2012-EE-392-32

Effective Year: FS2013  
Effective 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: 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, initialed by Dept. Chair, if signature does not appear below.

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

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

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

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

CC File # 8275-2012-CS-445-32

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.)

Present: State-of-the-art topics in robotics control and sensory systems. Robotic sensors: position and proximity sensors, touch, force and torque sensors, and robotic vision implementations. Computer control: robotic software tools and techniques and embedded microprocessors.

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, initialed by Dept. Chair, if signature does not appear below.

- 1) CpE 488 *XJR* 2) 3)
- 4) EE 488 *XJR* 5) 6)

Recommended by Department *NRJ*  
(Chair signature)

Recommended by Discipline Specific Curricula Committee *Daniel J...*  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: Aug 15, 12

Date: 9/8/2012

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Effective Year: 2013

Term: Summer  Fall  Spring

CC File #8276-2012-EE-488-10

# 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, initialed by Dept. Chair, if signature does not appear below.

- 1) CmpSc 445 *DR* 2) 3)
- 4) CpE 488 *KE* 5) 6)

Recommended by Department *Kelvin Essler* Date: 15 Aug 2012  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee *William Roper* Date: 8-26-12  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2013

Term: Summer  Fall  Spring

CC File #8277-2012-CpE-488-10

# 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 *OR* 2) 3)
- 4) EE 488 *KJE* 5) 6)

Recommended by Department Kelm Erulin  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee Stephen Pope  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: 15 Aug 2012  
Date: 8-26-17  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_

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: 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  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee:  Date: 9/4/2012  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

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: Business & Info Tech

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

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 Lab: Total: 3.0  
Proposed: Lecture: Lab: Total:

### 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 [Signature] Date: 8/27/12  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee [Signature] Date: 9/4/2012  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: <sup>2012</sup> ~~2011~~

Effective Term: Summer  Fall  Spring

EC File # 2414-552012-GE-301

# 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:**                      **Total:**

**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: Ralph Now (Chair Signature) Date: 4-3-12

Discipline Specific Curricula Committee: Ralph Now (Chair signature) Date: 8-26-12

Curricula Committee: \_\_\_\_\_ (Chair Signature) Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2415-SP2013-PolSci-301

## 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 (24 spaces or less): Constitutional Law

Instructor(s): John Wiggins

Credit Hours: Lecture: 3 Lab: 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) \_\_\_\_\_ 6) \_\_\_\_\_

Department Chair: *J. Angus*  
(Chair Signature)

Date: 6/13/12

Discipline Specific Curricula Committee: *Wheeler*  
(Chair signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_



Effective Year: 2013

Effective Term: Summer  Fall  Spring

EC File # 2416-Sp2013-Mine-301

# 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: [Signature]  
(Chair Signature)

Date: 06/10/12

Discipline Specific Curricula Committee: [Signature]  
(Chair signature)

Date: 8-26-12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2417-FS 2013-ExpEng-301

# 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 <sup>F</sup> fireworks <sup>M</sup> manufacturing

Abbreviated Title (24 spaces or less): Fireworks <sup>M</sup> manufacturing

Instructor(s): Stephen Hall

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

Prerequisites: Chem 1, Chem 2, Chem 4, Econ 121, Econ 122, or Eng Mgt 137 (Successful background check)

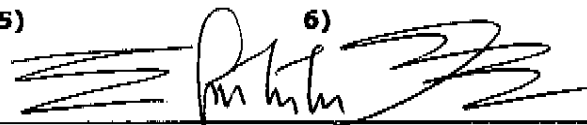
Semester(s) previously taught: FS2012

### 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 canister 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:   
(Chair Signature)

Date: 06/10/12

Discipline Specific Curricula Committee:   
(Chair signature)

Date: 8-26-12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

EC File # 2418-Sp2013-Hist-301

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

## 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 Cultural History of Economic Depression in America

Abbreviated Title (24 spaces or less): Depressions in America

Instructor(s): Dr. Susan Curtis

Credit Hours:      Lecture: 3                      Lab:                      Total:

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]*  
(Chair Signature)

Date: 6/7/12

Discipline Specific Curricula Committee: *[Signature]*  
(Chair signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2419-Sp2013-Hist-301

## 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:                      Total:

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: Y. Ang (Chair Signature)

Date: 6/7/12

Discipline Specific Curricula Committee: U. Bruening (Chair signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_ (Chair Signature)

Date: \_\_\_\_\_

*Do they need this form?*

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # *2420-F32013-Math-301*

## 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 204, 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: *Leon M. Hall*  
(Chair Signature)

Date: *5/4/2012*

Discipline Specific Curricula Committee: *Daniel Joink*  
(Chair signature)

Date: *9/7/2012*

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # *2421-Sp2013-Min-401*

## 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:                      Total:

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: *[Signature]*  
(Chair Signature)

Date: *06/25/12*

Discipline Specific Curricula Committee: *[Signature]*  
(Chair signature)

Date: *8/26/12*

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

EC File # 2422-5p2013-Min-401

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

# 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 Auto

Instructor(s): Nassib Aouad

Credit Hours:      Lecture: 3                      Lab:                      Total:

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: [Signature]  
(Chair Signature)

Date: 08/25/12

Discipline Specific Curricula Committee: [Signature]  
(Chair signature)

Date: 08/26/12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2423-Sp2013-Min-401

## 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: Mining Machinery Event Simulation

Abbreviated Title (24 spaces or less):

Instructor(s): Nassib Aouad

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: Graduate standing

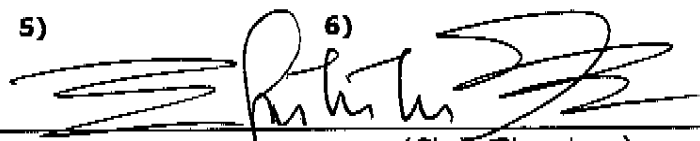
Semester(s) previously taught: None

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: 8-26-12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_



EC File # 2424-SP2013-EE-301

Effective Year: **2013**  
Effective Term: Summer  Fall  Spring

## 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: 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:                      Total:

Prerequisites: EE271 & EE217

Semester(s) previously taught: None

Brief Course Description: (40 words or less)  
Introducing fundametal 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: *Reza Zoughi*  
(Chair Signature)

Date: 26 July 2012

Discipline Specific Curricula Committee: *Reza Zoughi*  
(Chair signature)

Date: 8-26-12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

## ***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*

“*Principles of Modern Radar*”, M.A. Richards, J.A. Scheer and W.A. Holm, SciTech Publishing, Inc.

### *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.

PLANNING to offer every even Spring

EC File # 2425-SP2014-Min-401

Effective Year: 2014  
Effective Term: Summer  Fall  Spring

# 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: Mi Eng 401

Course Title: Geostatistics

Abbreviated Title (24 spaces or less): Geostatistics

Instructor(s): Kwame Awuah-Offei

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: Graduate standing or consent

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

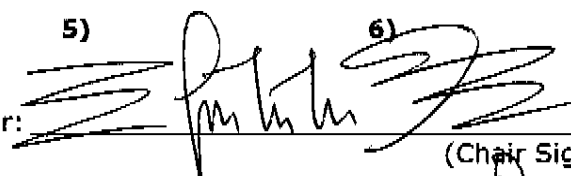
### Brief Course Description: (40 words or less)

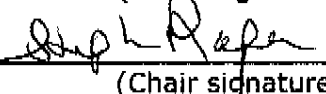
Definition of geostatistical data; theory of random fields; autocorrelation and ~~measures~~<sup>MEASURES</sup> of spatial variability including semivariograms, variograms and covariance functions; and spatial prediction and validation. Case studies in mineral resource estimation and environmental pollutant 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:  (Chair Signature)

Discipline Specific Curricula Committee:  (Chair signature)

Curricula Committee: \_\_\_\_\_ (Chair Signature)

Date: 07/06/12

Date: 8/26/12

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2426-Sp2013-P/Sci-301

## 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: Politics of the Middle East

Abbreviated Title (24 spaces or less): Middle East Politics

Instructor(s): Dr. Tseggal Isaac

Credit Hours:      Lecture: 3                      Lab:                      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: Y. Argy (Chair Signature)

Date: 7/5/12

Discipline Specific Curricula Committee: U. U. U. (Chair signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_ (Chair Signature)

Date: \_\_\_\_\_

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2428-Sp2013-Engl-301

## 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: English & Tech Com  
Discipline and Course Number: English 301

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.

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

Department Chair: [Signature]  
(Chair Signature)

Date: 7/16/12

Discipline Specific Curricula Committee: [Signature]  
(Chair signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

**Myth and Folklore**  
English 2xx/3xx  
Spring/Fall Semester 201x  
Dr. Eric Bryan  
Class Location:

**Office: H-SS 221**  
**Office Hours:**  
**Email: bryane@mst.edu**  
**Phone: 573.341.4622**  
**Class Time:**

**Required materials**

*Eyrbyggja Saga*. Trans. Herman Palsson and Paul Edwards. Penguin Classics, 1989.  
Cairlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004.  
Snorri Sturluson, *The Prose Edda: Norse Mythology*. Trans. Jesse Byock. Penguin Classics, 2005.

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 naïve, 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 so 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 (20%):** 7 or so 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 1/2 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 a 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](http://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](mailto:dss@mst.edu).

Tentative Reading Schedule:

UNIT 1: FOLKLORISTICIS AND MYTHOLOGY

Week 1

Richard M. Dorson. "The Eclipse of Solar Mythology." *The Study of Folklore*. Ed. Alan Dundes. Prentice-Hall: 1965. 57-83.  
Lord Raglan. "The Hero of Tradition." *Folklore*, Vol. 45, No. 3. (Sep., 1934), pp. 212-231.

Week 2

Mercia Ellade. "The Structure and Morphology of the Sacred." *Patterns in Comparative Religion*.  
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*, Genesis 1-6 (excerpts on Blackboard)

Week 4

*Upanishads* (excerpts on Blackboard)

UNIT 3: PREHISTORY IN BRITAIN, DENMARK, AND SWEDEN

Beaker People, Stonehenge, and Mithras (excerpts on Blackboard)  
Julius Caesar. *The Battle for Gaul*. Trans. Annis and Peter Wiseman. David R. Godine: 1980. 120-25. (on Blackboard)  
Introduction. Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 1-10.

UNIT 3: CELTIC AND WELSH SOURCES

Week 5

"Selections from the Book of Invasions." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 11-16.

Week 6

"The First Battle of Moytura." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. (excerpts on Blackboard)  
"The Second Battle of Moytura." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. (Excerpts on Blackboard)

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- "The Boyhood Deeds of CúChulainn." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 153-165.
- "The Cattle Raid of Cooley." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 91-110.

**Week 7**

- "The Wooing of Emer." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 345-68.
- "The Sick-Bed of CúChulainn." Caitlin and John Matthews, eds. *The Encyclopaedia of Celtic Myths and Legends*. Guilford, CN: The Lyons Press, 2004. 195-218.

**Week 8**

- "Peredur, Son of Evrawg." *The Mabinogion*. Trans. Jeffrey Gantz. New York: Dorset Press, 1976. 217-57.
- "Owein (or the Countess of the Fountain)." *The Mabinogion*. Trans. Jeffrey Gantz. New York: Dorset Press, 1976. 192-216.
- "Pwyll, Lord of Dyved." *The Mabinogion*. Trans. Jeffrey Gantz. New York: Dorset Press, 1976. 43-65.

Arthurian Excerpts (on Blackboard)

**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 Brother. *Grimms' Fairy Tales* (Excerpts on Blackboard)
- Anglo Saxon lore* (Excerpts on Blackboard)

**UNIT 5: NORSE SOURCES**

**Week 12**

- Eyrbyggja Saga*. Trans. Hermann Palsson and Paul Edwards. Penguin Classics, 1989.
- Snorri Sturluson. *The Prose Edda: Norse Mythology*. Trans. Jesse Byock. Penguin Classics, 2005.

**Week 13**

*Scandinavian folklore collection* (Excerpts on Blackboard)

**UNIT 6: WITCHCRAFT AND NEO-PAGANISM**

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**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

Effective Year: 2013  
Effective Term: Summer  Fall  Spring

EC File # 2429-Sp2013-Eng-301

## Experimental Course Form (EC)

An EC form must be submitted before an experimental course is to be offered. EC forms approved SP2007 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: 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: Eng 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, Kincaid, Booth-Lin, 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) \_\_\_\_\_ 6) \_\_\_\_\_

Department Chair:   
(Chair Signature)

Date: 8/6/12

Discipline Specific Curricula Committee:   
(Chair Signature)

Date: 8/17/12

Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

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**GLOBAL FOODS: THE CARIBBEAN  
SPRING 2013  
Syllabus and Class Schedule**

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**Contact Information**

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

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**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

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**Grades**

Research Paper: 25%	Due:
Creative Paper: 25%	Due:
Final Project: 30%	Due:
Travel Journal: 10%	Due following Bahamas travel
Quizzes and Attendance: 10%	Due throughout semester

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**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 21<sup>st</sup> 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, Gigante, and Geertz to study representations of this key

cultural marker and what it can teach us as 21<sup>st</sup> 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:** I 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

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- 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



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- 3) **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*  
to discuss: San Salvador—across classes
- 8) **Caribbean Culture and Diet**  
assignment: read Ann Vanderhoof, *An Embarrassment of Mangoes*
- 9) **Regional Food**  
assignment: continue Ann Vanderhoof, *An Embarrassment of Mangoes*
- 10) **Food and Tourism**  
assignment: read Anthony Bourdain, *Gone Bamboo*
- 11) **Connections of Figurative and Literal Process**  
assignment: continue Anthony Bourdain, *Gone Bamboo*
- 12) **Criticism, Fishing and Myth-Making**  
assignment: read Ernest Hemingway, *The Old Man and the Sea*
- 13) **Food, Media and Eco-Criticism**  
assignment: read selection from Holly Hughes, *The Best Food Writing, 2011*
- 14) **Food, Media and Technology**  
assignment: read selection from Holly Hughes, *The Best Food Writing, 2011*
- 15) **The Future of Global Food Politics**  
assignment: student presentations
- 16) **Final**—we have a great summer!!!



Effective Year: 2012

Term: Summer  Fall  Spring

# Course Change Form (CC)

This form is for creating or modifying permanent courses.

*Added*  
*VAPP*

## 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: English and Tech Com *Tech Com*  
2. Discipline and Course Number: Present: Proposed: 311  
3. Course Title: Present: Proposed: International Dimensions of Technical Communication

### 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: 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.

*Need to go form for 311*

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

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

## 7. Prerequisites: Present:

Proposed: *Tech 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) ~~TCH COM 411~~ ✓ 2) 3)  
4) 5) 6)

Recommended by Department: *[Signature]*

Date: *2/14/12*

Recommended by Discipline Specific Curricula/Committee: *[Signature]*

Date: *2/16/12*

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_

Effective Year: 2013

CC File # 8262-2012-MKT350-34

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: Business & Information Technol

2. Discipline and Course Number: Present : MKT 350 Proposed:

3. Course Title: Present: Customer Focus and Satisfaction  
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: Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done.

Proposed: This course covers the concept of customer focus. Techniques for obtaining customer needs, the importance of those needs, customer attitudes are covered extensively. Students learn how to use these measures to <sup>and</sup> develop strategic advantage for the marketplace.

5. If course requires field trip check box:

6. Credit Hours: Present: Lecture: 3.0 Lab: Total: 3  
Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present: Mkt 310 or MKT 307 or Eng Mgt 251

Proposed: MKT 311 or EMGT 251

8. Required for Majors:  Elective for Majors:

9. Justification: This course will no longer be cross-listed with BUS 350. BUS 350 will cover the management & operations side of the topic while MKT 350 covers the measurement of customer needs, wants, and attitudes.

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 Courtney Foster  
(Chair signature)

Date: 4/26/12

Recommended by Discipline Specific Curricula Committee Doug Schubert  
(Chair signature)

Date: 4/27/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

CC File # 8263-2012-BUS-350-32

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: Business & Information Technol

2. Discipline and Course Number: Present : BUS 350 Proposed:

3. Course Title: Present: Customer Focus & Satisfaction  
Proposed: Managing Product & Service Quality

Abbreviated Course Title: Managing Prod/Serv Qual  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

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

Present: Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done.

Proposed: Managerial and operations aspects of managing product or service development and/or improvement using a Quality Function Deployment methodology. Techniques for obtaining customer needs & maximizing benefits of customer input covered. A House of Quality project will be completed.

5. If course requires field trip check box:

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

7. Prerequisites:

Present: MKT 310 or MKT 307 or EMgt 251

Proposed: BUS 110 or EMGT 134 or EMGT 314

8. Required for Majors:  Elective for Majors:

9. Justification: There is no MKT 310 course. BUS 110, EMGT 134, EMGT 314 are more appropriate prerequisites for this course. This course will no longer be co-listed with MKT 350.

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 Christine Fisher Date: 4/26/12  
(Chair signature)

Recommended by Discipline Specific Curricula Committee Ray Blackhart Date: 4/27/12  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2013

CC File # 264-2012-BUS-450-32

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: Business & Information Technol

2. Discipline and Course Number: Present : BUS 450 Proposed:

3. Course Title: Present: Advanced Customer Focus & Satisfaction  
Proposed: Advanced Managing Product & Service Quality

Abbreviated Course Title: Adv Mng Prod/Serv Qual  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

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

Present: Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. Individual focused research is included.

Proposed: Managerial and operations aspects of managing product or service development and/or improvement using a QFD methodology. Techniques for obtaining customer needs & maximizing benefits of customer input covered. A House of Quality project will be completed. Individual focused research is included.

5. If course requires field trip check box:

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

7. Prerequisites:

Present: MKT 311 or MKT 307 or EMgt 251

Proposed: BUS 110 or EMGT 134 or EMGT 314

8. Required for Majors:  Elective for Majors:

9. Justification: BUS 110, EMGT 134, EMGT 314 are more appropriate prerequisites for this course. This course will no longer be co-listed with MKT 450.

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 Caroline Tesher  
(Chair signature)

Date: 4/26/12

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 4/27/12

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2013

CC File # 8265-2012-MKT-450-32

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: BIT

2. Discipline and Course Number: Present : MKT 450 Proposed:

3. Course Title: Present: Advanced Customer Focus and Satisfaction  
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: Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done.

Proposed: This course covers the concept of customer focus. Techniques for obtaining customer needs, the importance of those needs, customer attitudes are covered extensively. Students learn how to use these measures to develop strategic advantage for the marketplace. Individual research is included.

5. If course requires field trip check box:

6. Credit Hours: Present: Lecture: 3.0 Lab: Total: 3  
Proposed: Lecture: Lab: Total:

## 7. Prerequisites:

Present: Mkt 310 or MKT 307 or Eng Mgt 251

Proposed: MKT 311 or EMGT 251

8. Required for Majors:  Elective for Majors:

9. Justification: This course will no longer be cross-listed with BUS 450. BUS 450 will cover the management & operations side of the topic while MKT 450 covers the measurement of customer needs, wants, and attitudes.

## 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 Caroline Lusher Date: 4/27/12  
(Chair signature)  
Recommended by Discipline Specific Curricula Committee Romy Schubert Date: 4/27/12  
(Chair signature)  
Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)  
Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)