Agenda
Campus Curricula Committee Meeting
September 5, 2012
12 p.m. Room 117 Fulton Hall

Review of submitted DC forms:
DC 0423, Electrical Engineering, Power and Energy emphasis area, effective Spring 2013. A proposal to modify the current power and energy emphasis area.

Review of submitted CC forms:
CC 8244, Computer Engineering 358, Electrical Engineering 367, Systems Engineering 367, Computational Intelligence, effective Fall 2012.

CC 8262, Marketing 350, Customer Focus and Satisfaction, effective Spring 2013.

CC 8263, Business 350, Customer Focus & Satisfaction, effective Spring 2103.


CC 8265, Marketing 450, Advanced Customer Focus and Satisfaction, effective Spring 2013.

CC 8269, Speech and Media 275, Foundations of Video Communication, effective Spring 2013.


Review of submitted EC forms:

Tabled Items:
Degree Change Form (DC)

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

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

Department: Electrical & Computer Engineering

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

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

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

Recommended by Department: [Signature] Date: 16 Apr 2012

Recommended by Discipline Specific Curricula Committee: [Signature] Date: 5/9/12

Approved by Curricula Committee: [Signature] Date: ______

Approved by Faculty Senate: [Signature] Date: ______

04/16/12 (Revised 1/31/2009)
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: Elec & Computer Engr
2. Discipline and Course Number: Present: CPE 358 Proposed:
3. Course Title: Present: Computational Intelligence 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: Intro to Computational Intelligence, Biological & Artificial Neuron, Neural Networks, Evolutionary Computing, Swarm Intelligence, Artificial Immune Systems, Fuzzy Systems & Hybrid Systems. CI Application case studies covered include digital systems, control, power systems, forecasting & time-series predictions.
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: Statistics 217
   Proposed: CS 153 or programming competency
8. Required for Majors: ☐ Elective for Majors: ☒
9. Justification: Current prerequisitites out of date. Students will undertake programming-based projects to demonstrate CI techniques. Students will need programming competency.

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) EE 367  2)  3)
   4) SySE 367  5)  6)
   Recommended by Department
   Recommended by Discipline Specific Curricula Committee
   Approved by Curricula Committee:
   Approved by Faculty Senate:

   (Chair signature) (Chair signature) (Chair signature)
   Date: 2012-08-17 Date: 57/12

(Revised 1/26/09)
From: Seiffertt, John E  
Sent: Tuesday, March 20, 2012 11:34 AM  
To: Martin, Sandra J.  
Cc: Stanley, R. Joe  
Subject: CC Form for CpE 358

Sandy,

Per our conversation, I am writing to request the CC form for the Computational Intelligence course be filled out. I have spoken with Joe Stanley about these changes already.

Course: CpE 358 Computational Intelligence Crosslisted with EE 367 and Sys Eng 367 (does the form have to be filled out for each listing?)

Current Prereq: Stat 217

Proposed Prereq: CS 153 or programming competency

Reason: The Stat prereq is out of date. I plan to have the students undertake programming-based projects to demonstrate CI techniques. For this reason, they need to have programming competency.

Thanks,

John

John Seiffertt
Assistant Teaching Professor
Electrical and Computer Engineering
Missouri S&T

FS 2012
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 Technology
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 develop strategic advantage for the marketplace.
5. If course requires field trip check box: □
6. Credit Hours: Present: Lecture: 3.0  Lab: 0  Total: 3
   Proposed: Lecture: 0  Lab: 0  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  
Recommended by Discipline Specific Curricula Committee
Approved by Curricula Committee
Approved by Faculty Senate

Date: 3/26/12
Date: 3/27/12
Date: 
Date:

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

This form is for creating or modifying permanent courses.

**Course Changes**
(Enter 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 Technology
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):**

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

   Recommended by Department:  
   **(Chair signature)**  
   Date: 4/26/12

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

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

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

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

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

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: 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 ___________________________ (Chair signature) Date: 4/26/12
   Recommended by Discipline Specific Curricula Committee ___________________________ (Chair signature) Date: 4/27/12
   Approved by Curricula Committee: ___________________________ (Chair signature) Date:
   Approved by Faculty Senate: ___________________________ (Chair signature) Date:

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

This form is for creating or modifying permanent courses.

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

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

1. Department: 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
(Chair signature) Date: 4/27/12

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

Approved by Curricula Committee:
(Chair signature) Date:

Approved by Faculty Senate:
(Chair signature) Date:

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

This form is for creating or modifying permanent courses.

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

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

1. Department: ALP
2. Discipline and Course Number: Present: SP&M 275
   Proposed: SP&M 275
3. Course Title: Present: Foundations of Video Communication
   Proposed: Foundations of Media Communication
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description
   Present: See catalog
   Proposed: The course explores the historical, social, & psychological impact of media through study and practice of academic and non-academic theories of effective media communication. The course supplies an integrated critical framework for application in students' day-to-day consumption of media.

5. If course requires field trip check box: □

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

7. Prerequisites:
   Present: SP&M 181 or consent of instructor
   Proposed: None

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

9. Justification: Curriculum and scope of course has been altered and an update is fair and necessary for students.Accuracy is the justification.

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

Date: 5/30/18

(Revised 1/31/08)
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: Mechanical and Aerospace Eng.


3. Course Title: Present: Advanced Digital Design and Manufacturing
   Proposed: Advanced Digital Design and Manufacturing

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

4. Catalog Description (300 Character Spaces or Less.)
   Present: This course covers selective topics essential to advanced digital design and manufacturing.
   These topics include freeform modeling, reverse engineering, NC path generation, and immersive digital design and manufacturing. Students will learn theoretical and practical materials on the various topics.
   Proposed: This course covers freeform modeling, reverse engineering, numerical control path generation for material removal and addition, and virtual reality based digital design and manufacturing. Students learn theoretical and fundamental aspects on these topics from lectures and project exercises.

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: Mc Eng 308 or Mc Eng 363
   Proposed: Mc Eng 308 or Mc Eng 363 or similar course

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

9. Justification: This course has been previously offered as an Mc Eng 401 experimental course for two semesters, with 10 students registering in the spring 2011 semester and 8 students registering in the spring 2012 semester.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): 2

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

Recommended by Department [Signature] Date: 7/12/2012
Recommended by Discipline Specific Curricula Committee [Signature] Date: 
Approved by Curricula Committee: [Signature] Date: 
Approved by Faculty Senate: [Signature] Date: 

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

This form is for creating or modifying permanent courses.

Course Changes
(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: MAE
2. Discipline and Course Number: Present: Proposed: Ae Eng 414
3. Course Title: Present:
   Proposed: Advanced Astrodynamics
   Abbreviated Course Title: Adv Astrodynamics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description: (300 Character Spaces or Less.)
   Present:
   Proposed: Analysis of spacecraft motion using different dynamic models and perturbations. Using the state transition matrix and differential corrections technique for trajectory computation. Introduction to the three-body problem. Use of computational and numerical methods to solve astrodynamics problems.
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: Ae Eng 314
8. Required for Majors: ☐ Elective for Majors: ☒
9. Justification: Course has been offered twice and is to be added as a regular permanent offering.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): Sum '06, Spring '11
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3) 4) 5)

   Recommended by Department (Chair signature) Date: 8/1/2012
   Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 
   Approved by Curricula Committee: (Chair signature) Date: 
   Approved by Faculty Senate: (Chair signature) Date: 

(Revised 1/29/09)
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: MAE

Discipline and Course Number: MC ENG 301

Course Title: Viscoelastic Materials: Modeling and Applications

Abbreviated Title (24 spaces or less): Viscoelasticity

Instructor(s): Gearoid MacSithigh

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

Prerequisites: CE 110, Math 204

Semester(s) previously taught: None

Brief Course Description: (40 words or less)

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: 7/19/2012

Discipline Specific Curricula Committee: _______________________________ (Chair signature) Date:

Curricula Committee: _______________________________ (Chair Signature) Date:

07/17/12 (Revised 10/12/2010)
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: Proposed: TCH Com
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.)
   Present: Proposed: TCH COM 311
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.

5. If course requires field trip check box: □

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

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

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

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

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

Recommended by Department:
(Chair signature)

Recommended by Discipline Specific Curricula Committee:
(Chair signature)

Approved by Curricula Committee:
(Chair signature)

Approved by Faculty Senate:
(Chair signature)

Date: 2/14/12
Date: 2/16/12

(Revised 1/29/09)