Agenda
Campus Curricula Committee Meeting
November 3, 2009 Meeting
3:15 p.m. Room 117 Fulton Hall

Approval of October 6, 2009 minutes.

Review of submitted DC forms:
DC 0337, Master of Science in Computer Science, Pervasive and Mobile Computing, effective Spring 2010. A proposal to create a new emphasis area under the Master of Science in Computer Science called Pervasive and Mobile Computing.

DC 0338, Bachelor of Science in Computer Science, effective Fall 2010. A proposal to modify the current Bachelor of Science in Computer Science.

DC 0339, Bachelor of Science in Computer Science, effective Fall 2010. A proposal to modify the current Bachelor of Science in Computer Science.

Review of submitted CC forms:
CC 7734, Biological Sciences 370, Toxicology, effective Spring 2010.

CC 7736, Business 405, Advanced Accounting Essentials, effective Spring 2010.


CC 7738, Marketing 407, Marketing and Strategy Essentials, effective Spring 2010.

CC 7739, Business 408, Graduate Operations Management Essentials, effective Spring 2010.

CC 7740, Business 409, Graduate Mathematics and Statistics Essentials, effective Spring 2010.

CC 7741, Psychology 154, Psychology Personal Adjustment, effective Spring 2010.

CC 7742, Psychology 246, Motivation and Emotion, effective Spring 2010.

CC 7743, Biological Sciences 322, Pathogenic Microbio Lab, effective Spring 2010.
CC 7744, Biological Sciences 365, Comparative Animal Physi, effective Spring 2010.

CC 7745, Biological Sciences 376, Adv Bio Lab Tech II, effective Spring 2010.

CC 7747, History 347, Orgns Mod Amer 1877-1920, effective Spring 2010.

CC 7748, History 351, Amer Intellectual Hist I, effective Spring 2010.

CC 7749, History 355, History of Black America, effective Spring 2010.

CC 7750, History 356, Hist-The American City, effective Spring 2010.

CC 7751, History 360, Hist of American Family, effective spring 2010.

CC 7752, History 402, Rdgs Am Hist to 1865, effective Spring 2010.

CC 7753, Political Science 250, State and Local Politics, effective Spring 2010.

CC 7754, ERP 444, Essentials of Data Warehouses, effective Spring 2010.


CC 7757, Mining Engineering 308, Drilling and Blasting, effective Spring 2010.

CC 7758, Mining Engineering 405, Non-Explosives Rock Frag, effective Spring 2010.

CC 7759, Biological Sciences 382, Neurobiology, effective Fall 2010.

CC 7760, System Engineering 368, System Engineering and Analysis I, effective Spring 2010.


CC 7764, System Engineering 468, System Engineering 468, effective Spring 2010.

CC 7765, System Engineering 469, Systems Architecting, effective Spring 2010.

CC 7766, Geology 211, Optical Mineralogy, effective Spring 2010.

CC 7767, Geology 411, Advanced Mineralogy, effective Spring 2010.

CC 7768, Computer Science 433, Theory of Compiling, effective Spring 2010.


CC 7774, Ceramic Engineering 201, Special Topics, effective Spring 2010.

CC 7775, Physics 4, Concepts in Physics, effective Spring 2010.


CC 7777, Physics 7, Environmental Physics II, effective Spring 2010.

CC 7778, Physics 27, General Physics Lab, effective Spring 2010.

CC 7779, Physics 28, General Physics Lab, effective Spring 2010.

CC 7780, Physics 337, Atmospheric Science, effective Spring 2010.

CC 7781, Physics 435, Cloud Physics, effective Spring 2010.

CC 7782, Chemistry 447, Statistical Thermodynamic, effective Spring 2010.

CC 7783, Chemistry 442, Neutron Diffraction, effective Spring 2010.

CC 7784, Chemistry 431, Inorganic Reaction Mechs, effective Spring 2010.


CC 7786, Chemistry 212, Science Teaching, effective Spring 2010.
CC 7787, Sociology 260, Deviant Behavior, effective Spring 2010.
CC 7788, Sociology 281, Family and Marriage, effective Spring 2010.
CC 7789, Sociology 100, Special Problems, effective Spring 2010.
CC 7790, Sociology 101, Special Topics, effective Spring 2010.
CC 7791, Sociology 105, Social Organization, effective Spring 2010.
CC 7792, Sociology 200, Special Problems, effective Spring 2010.
CC 7793, Sociology 201, Special Topics, effective Spring 2010.
CC 7794, Sociology 210, Seminar, effective Spring 2010.
CC 7795, Sociology 300, Special Problems, effective Spring 2010.
CC 7796, Sociology 301, Special Problems, effective Spring 2010.
CC 7797, Sociology 310, Seminar, effective Spring 2010.
CC 7798, German 90, Scientific German, effective Spring 2010.
CC 7799, German 180, Basic German Composition, effective Spring 2010.
CC 7800, German 311, Advanced German Conversation, effective Spring 2010.
CC 7801, German 402, Beg Ger for Grad Students, effective Spring 2010.
CC 7802, French 378, French Theater, effective Spring 2010.
CC 7803, Spanish 371, Surv of Span Am Lit, effective Spring 2010.
CC 7804, Spanish 60, Hispanic Civilization, effective Spring 2010.
CC 7806, Music 152, Survey Contemporary Music, effective Spring 2010.
CC 7807, Music 155, Music in the U.S., effective Spring 2010.
CC 7808, Art 251, Genre Studies Film & Lit, effective Spring 2010.

CC 7809, Art 255, Script to Screen, effective Spring 2010.


CC 7812, Eng Mech 311, Intro to Continuum Mech, effective 2010.

CC 7813, Eng Mech 341, Exper Stress Analysis I, effective Spring 2010.

CC 7814, Eng Mech 373, Advance Dynamics, effective Spring 2010.

CC 7815, Eng Mech 390, Undergraduate Research, effective Spring 2010.


CC 7819, Eng Mech 10, Intro to Engineering, effective Spring 2010.

CC 7820, Eng Mech 201, Special Topics, effective Spring 2010.

CC 7821, Eng Mech 300, Special Problems, effective Spring 2010.

CC 7822, Eng Mech 301, Special Topics, effective Spring 2010.


CC 7824, Eng Mech 310, Seminar, effective Spring 2010.

CC 7825, Eng Mech 322, Intro to Solid Mechanics, effective Spring 2010.


CC 7829, Eng Mech 337, Fatigue Analysis, effective Spring 2010.

CC 7830, Eng Mech 361, Vibrations I, effective Spring 2010.
CC 7831, Eng Mech 381, Intro Comp Mtrls/Struc, effective Spring 2010.

CC 7832, Eng Mech 400, Special Problems, effective Spring 2010.

CC 7833, Eng Mech 401, Special Topics, effective Spring 2010.

CC 7834, Eng Mech 408, Finite Element Approx II, effective Spring 2010.

CC 7835, Eng Mech 410, Seminar, effective Spring 2010.


CC 7841, Eng Mech 484, Analysis Lamin Comp Stru, effective Spring 2010.

CC 7842, Eng Mech 490, Research, effective Spring 2010.


CC 7844, Eng Mech 495, Continuous Registration, effective Spring 2010.


Review of submitted EC forms:
EC 2202, Biological Sciences 401, Advanced Toxicology, effective Spring 2010.

EC 2203, GE 201, Geology and Engineering of Ancient and Modern Peru, effective Spring 2010.

EC 2204, GE 401, Surface Waves & Ground Penetrating Radar, effective Spring 2010.

EC 2205, Ceramic Engineering 201, Applied Glass Forming, effective Spring 2010.

EC 2208, Electrical Engineering 301, Electric-Drive Vehicles, effective Spring 2010.

EC 2209, Statistics 401, Survival Analysis, effective Fall 2010.

EC 2217, Biological Sciences 301, Cancer Cell Biology, effective Fall 2010.

EC 2218, Biological Sciences 401, Advanced Cancer Cell Biology, effective Fall 2010.

EC 2221, Biological Sciences 101, Genetics: Decoding your genes, effective Fall 2010.
Effective Year: 2010
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:
BS

Department: Computer Science

Briefly describe action requested (Attach documentation as appropriate):
The requirement of an elective in humanities or social sciences will be changed to a required elective from the Philosophy department. The course options are Phil 225 or 235 or 340 or 368. Thus, in the second semester of senior year in the Sample Course of Study, "Humanities/Social Science Elective" should be replaced with "Philosophy Elective" and note (11) should now read: "Phil 225 or 235 or 340 or 368". 

This change is needed in order to respond to ABET's concerns about ethics instruction in the CS curriculum.

Recommended by Department: ____________________________ (Chair signature) Date: Sept 8, 09

Recommended by: ____________________________ (Chair signature) Date: 10/14/2009

Discipline Specific Curricula Committee

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

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

09/06/09

(Revised 1/21/2008)
Computer Science

Bachelor of Science
Master of Science
Doctor of Philosophy

The Computer Science Department educates students in a broad range of areas. Students take courses in the design and implementation of software systems and the algorithms (problem solving techniques) used to solve "real world" problems in business, industry, and engineering or as preparation for graduate study. Students are given both the depth and breadth of computer science so necessary to keep them competitive in today's fast-changing world. While instruction and research are on the leading edge of computing, the
Department endeavors to keep class sizes small to promote proactive teaching practices and effective interactions between the students and faculty. In addition to computer science courses, the Department's undergraduate program requires students to be educated in a broad range of general education courses. All computer science seniors are expected to take the capstone course that gives them "real world" experience working in teams composed of fellows students and practicing computer scientists. These teams design, implement, test, and maintain actual software systems. (The sample curriculum shown below provides more detail.)

The Computer Science faculty has a broad range of scholarly interests which include computer security, databases and wireless systems, intelligent systems (artificial intelligence, machine learning, evolutionary computation), data mining, bioinformatics, parallel and distributed processing, software engineering, computer networks, scientific visualization, computational science, and algorithms. The research being done in these areas involves both undergraduates and graduates and supports the department's three majors of excellence: software lifecycle, critical infrastructure protection, and bioinformatics. Faculty are not only actively doing research in these areas, they integrate their research experiences into the classroom.

Computer science graduates from Missouri S&T work in a variety of environments. Some work for large companies, others prefer smaller companies. Many of our graduates have started their own companies. Regardless of their choice of employment, Missouri S&T Computer Science graduates are in high demand as evidenced by the number of companies that specifically recruit our graduates.

The Computer Science Department at Missouri S&T makes use of both its own computer learning centers (CLCs) as well as university CLCs. The Department maintains several CLCs including the following instructional laboratories:

- Instructional Workstation Laboratory that provides Unix/Linux workstations,
- Instructional PC Laboratory consisting of PC computing platforms

Research laboratories provide support for both undergraduate and graduate students. These laboratories include:

- McDonnell Douglas Software Engineering Laboratory
- Bioinformatics Laboratory
- Experimental Computation Laboratory
- Web and Wireless Computing (W2C)
- Natural Computation Lab
- Network Research Lab

Wired and Wireless Network Access is available to all students, faculty and staff.

For further information, visit the Department's web page at http://www.cs.mst.edu or contact us at 573-341-4491 or at csept@mst.edu.

Faculty

Professors:
All Hunsen (Chair), Ph.D., Central Florida
Pikret Ercal, Ph.D., Ohio State
Frank Liu, Ph.D., Texas A&M
Bruce McMillen, Ph.D., Michigan State
Ann Miller, (Cynthia Yang Missouri Distinguished Professor of Computer Engineering), Ph.D., St. Louis University
Chaman Sabharwal, Ph.D., UIUC
Jagannathan Sarangapani, Ph.D., University of Texas-Arlington
Thomas Weigert (Daniel C. St. Clair Endowed Chair), Ph.D., University of Illinois
Ralph Wilkerson, Ph.D., SIU-Carbondale
Donald C. Wunsch II, (Mary Finley Missouri Distinguished Professor of Computer Engineering) Ph.D., University of Washington

Associate Professors:
Jennifer Leopold, Ph.D., University of Kansas
Santay Madria, Ph.D., Indian Institute of Technology
Daniel Tauritz, Ph.D., Leiden University

Assistant Professors:
Maggie Cheng, Ph.D., University of Minnesota
Sriram Chellappan, Ph.D., Ohio State University
Wai Jiang, Ph.D., Purdue University
Dan Lin, Ph.D., National University of Singapore

Teaching Associate:
David M. Mentis, M.S., UMR
Matt Buechler, M.S., UMR

Undergraduate Coordinator/Freshman Advisor & Transfer Advisor:
Clayton Price, M.S., UMR

Emeritus Faculty:
Thomas Baird, M.S., UMR
Billy Gillett, Ph.D., Oklahoma State
Ralph E. Lee, M.A., Indiana
Howard D. Pyron, Ph.D., Iowa State
Thomas J. Sager, Ph.D., New Mexico
Frank G. Walters, M.S., New Mexico
George W. Zobrist, Ph.D., Missouri-Columbia

Adjunct Faculty:
William E. Bond, Ph.D., Ranseeler
Randy Cannon, 3D, UMC
Chris Merz, Ph.D., UC Irvine
William Van Stroecker, M.D., UMC

Bachelor of Science

Computer Science

A minimum of 126 credit hours is required for a Bachelor of Science degree in Computer Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for algebra, trigonometry, and basic ROTC.

The Computer Science curriculum requires twelve semester hours in humanities, exclusive of foreign language, and must include English 60 or English 160. A minimum of nine semester hours is required in social sciences, including either History 175, 176, 112, or Pol
Senior Year
First Semester
Cmp Sc Electives (a) ........................................... 6
Eng/Science Electives (a) ......................................... 6
Humanities/Social Science Elective (b) ..................... 6
Cmp Sc 397-Software Systems Development I ........ 3
Total Credit .................................................. 18

Second Semester
Cmp Sc Electives (a) ........................................... 6
Eng/Science Elective (a) ......................................... 4
Humanities/Social Science Elective (b) ..................... 3
Free Elective (a) .................................................. 4
Total Credit .................................................. 16

(a) Any science lecture-laboratory course or course pair totaling at least four hours credit. The laboratory is mandatory in all cases. These courses may be selected from: Chem 1, 2 and 4; Chem 5; Bio Sc 110 and 112; Physics 9 (or 11) and 110; Geology 51 and 53; Geology 52 and 54; and Bio Sc 115 and 116.

(b) Any nine hours that include courses from at least two of the following areas: economics, history, political science, psychology, or sociology. One course must satisfy the Missouri and U.S. Constitution requirement. (See Cmp Sc web page).

(c) Physics 21 and 22 or Physics 21-22/27 and Physics 25-26/28.

(d) Sp & MS 85 or Sp & MS 283.

(e) One literature and one humanities course in any of the humanities.

(f) Stat 215 or 343.

(g) Math 203 or 206.

(h) Courses chosen from any field so that 128 hours are completed. These and only these courses may be taken pass/fail and only one course may be taken pass/fail each semester. Some courses such as algebra, trigonometry, Arts & Sciences 110, Math 8, 14, 15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28, 31, 35 and the first two years of ROTC do not count toward the free electives.

(i) Fifteen hours are CS electives. At least twelve hours must be 300 level or higher CS courses (excluding CS 396 and CS 317). CS 202 and CS 170 courses are not accepted as CS electives.

(j) Any nine hours chosen from departments that offer a B.S., (or Basic Engineering), excluding computer science. These may not be Math 8, 14, 15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28, 31, or 35.

(k) Any three hours in humanities or social science.

(l) Laboratory not required.

(m) Or English 160 - Technical Writing.

(n) Or Chemistry 110, Physics 1, Math 1, or EE 10.

Junior Year
First Semester
History Elective (a) ............................................. 3
History Elective (a) ............................................. 3
Cmp Sc 284-Intro Operating Systems .................... 3
Cmp Sc 213-Digital Systems Design (a) .................. 3
Cmp Sc 220-Theory of Computer Science ............... 3
Free Elective (a) ................................................. 4
Total Credit .................................................. 16

Second Semester
Cmp Sc 256-Prog Languages & Translators ............. 3
Social Science Elective (a) ..................................... 3
Cmp Sc 228-Intro to Numerical Methods ................ 3
English 60-Writing and Research (a) .................... 3
Cmp Sc 206-Software Engineering I .................... 3
Total Credit .................................................. 15

Sophomore Year
First Semester
Cmp Sc 253-Algorithms ....................................... 3
Social Science Elective (a) ..................................... 3
Literature Elective (a) ........................................... 3
Literature Elective (a) ........................................... 3
Sp & MS 85-Intro to Speech (a) ....................... 3
Total Credit .................................................. 16

Second Semester
Cmp Sc 238-File Struct & Intro Database Sys .......... 3
Cmp Eng 111-Intro to Cmp Eng (a) .......................... 3
Math 208-Linear Algebra I (a) .............................. 3
Physics Elective (a) .............................................. 3
Stat 215-Engineering Statistics (a) ........................ 3
Total Credit .................................................. 15

Junior Year
First Semester
History Elective (a) ............................................. 3
Cmp Sc 284-Intro Operating Systems .................... 3
Cmp Sc 213-Digital Systems Design (a) .................. 3
Cmp Sc 220-Theory of Computer Science ............... 3
Free Elective (a) ................................................. 4
Total Credit .................................................. 16
his/her minor advisor will plan a course of study to meet the specific interests and needs of the student.

C) Students pursuing a minor in computer science must earn a "C" or better in Cmp Sc 53, Cmp Sc 54, Cmp Sc 128, Cmp Sc 253, and Cmp Sc 253 if any of these courses are taken for the minor.

Bioinformatics Minor

Students majoring in computer science are eligible to pursue a minor in bioinformatics. See the description of the bioinformatics minor.

Computer Science Courses

1 Introduction To Computer Science (LEC 1.0)
This course is devoted to an introduction of various areas of Computer Science, the faculty members, and lab equipment. Computer ethics will be discussed in several lectures.

53 Introduction To Programming (LEC 3.0)
Programming design and development using C++. Emphasis placed on problem solving methods using good programming practices and algorithm design and development. Topics included are syntax/semantics, logical, relational and arithmetic operators, decision branching, loops, functions, file I/O, arrays, output formatting, C-strings, and an introduction to Object-Oriented Programming including the development and use of classes. Prerequisite: Accompanied by Cmp Sc 54.

54 Introduction To Programming Laboratory (LAB 1.0) Practical applications of concepts learned in Computer Science 53. Hands-on instruction in C++ developing, debugging, and testing programming projects. Prerequisite: Accompanied by Cmp Sc 53.

73 Basic Scientific Programming (LEC 2.0)
Introduction to the structure of programs and programming techniques in Fortran to solve science and engineering problems. Topics include data representation, basic solutions of numerical problems and the debugging and verification of programs. Prerequisite: Entrance requirements.

74 Introduction To Programming Methodology (LEC 2.0)
Basic structured programming and problem solving techniques using C++. Development, debugging, and testing of programs, data representation. Topics include syntax/semantics, operators, loops, decision branching, arrays, file I/O. This course is a terminal course for non-majors and is not sufficient for entry into Computer Science 153.

77 Computer Programming Laboratory (LAB 1.0)
A laboratory to accompany Cmp Sc 73 which emphasizes the designing, writing and debugging of programs in Fortran. Prerequisite: Accompanied by Cmp Sc 73.

78 Programming Methodology Laboratory (LAB 1.0)
A hands-on introduction to structured programming in C++. Development, coding, debugging, and execution of programming concepts discussed in Computer Science 74. Prerequisite: Accompanied by Computer Science 74.

101 Special Topics (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.

128 Discrete Mathematics For Computer Science (LEC 3.0) A rigorous treatment of topics from discrete mathematics which are essential to computer science. Principal topics include: formal logic (propositional & predicate), proof techniques, mathematical induction, program correctness, sets, combinatorics, probability, relations, functions, matrices, graph theory and graph algorithms. Prerequisite: Cmp Sc 53 or at least sophomore standing.

153 Data Structures (LEC 3.0) A continuation of the development of structured programming concepts and their use in program development. Stacks, queues, linked list, arrays, trees, sorting and searching will be taught together with their use in implementations of a number of algorithms. Prerequisites: Grade of "C" or better in Cmp Sc 53.

206 Special Problems (IND 0.0-6.0) Problems or readings on specific subjects or projects in the department. Consent of instructor required.

207 Special Topics (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.

202 Cooperative Work Training (IND 1.0-5.0) On-the-job experience gained through cooperative education with industry, with credit arranged through departmental cooperative advisor. Grade received depends on quality of reports submitted and work supervisor's evaluation. Not more than 9 hours may be applied to the B.S. degree.

206 Software Engineering I (LEC 3.0) Development of methodologies useful in the software engineering classical life cycle. This includes: requirements, design, implementation, and testing phases. These methodologies are reinforced through utilization of a CASE tool and a group project. Prerequisite: Cmp Sc 253.

210 Seminar (IND 0.0-6.0) Discussion of current topics.

220 Theory of Computer Science (LEC 3.0) This course will cover the theoretical underpinnings of computer science. In particular, this course will cover the following topics: basic computability and formal language concepts, regular languages, context free languages, recursively-enumerable languages, and classes P, NP, and NP-completeness. Prerequisites: Cmp Sc 128 and Cmp Sc 153.

228 Introduction To Numerical Methods (LEC 3.0) Finite difference interpolation, numerical differentiation and integration, linear systems of equations, solution of nonlinear equations, numerical solution of ordinary differential equations, computational techniques and the programming of a large number of problems on
Effective Year: 2010
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:
BS

Department: Computer Science

Briefly describe action requested (Attach documentation as appropriate):
In order to make the Sample Study correctly reflect the requirements for the bachelors degree in
Computer Science, the following changes should be made.

In the first semester of the senior year, "Cmp Sc Electives .... 6" should be changed to "Cmp Sc
Electives .... 9", and delete the "Humanities/Social Science Elective" line in that same semester.

These changes will make the sample have the proper number of electives in those categories.

Recommended by Department: ________________
(Chair signature) Date: Sep 1, 09

Recommended by: _______________________
Discipline Specific Curricula Committee (Chair signature) Date: 10/14/2009

Approved by Curricula Committee: _______________________
(Chair signature) Date: ________________

Approved by Faculty Senate: _______________________
(Chair signature) Date: ________________
Effective Year: 2010  
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:
Proposed: Pervasive and Mobile Computing (MS)

Department: CS

Briefly describe action requested (Attach documentation as appropriate):
Pervasive and Mobile Computing has become one of the emphasis areas in the Department of Computer Science among Bioinformatics, Software Engineering, and Critical Infrastructure Protection. The students who opt for the concentration in this area of study will take any three classes from CS338, CS 401(Heterogeneous and Mobile Databases), CS467, CS434,CS437,CS484 and two classes from CS365,CS401(Network Performance Monitoring), CS465,CS462, and CS463.

1. CS 338 Database Systems
2. CS 434 Data Mining & Knowledge Discovery
3. CS 365 Computer Communication and Networks
4. CS 401 Heterogeneous and Mobile Databases
5. CS 462 Advanced Networks Security
6. CS 463 Computer Security
7. CS 465 Advanced Topics in Wireless Networks
8. CS 467 Mobile and Sensor Data Management
9. CS 484 Distributed Systems and Theory
10. CS 437 Web Data Management And XML
11. CS401 Network Performance Monitoring

Recommended by Department: [Signature]  
Date: 09/24/09

Recommended by Discipline Specific Curricula Committee: [Signature]  
Date: 10/14/2009

Approved by Curricula Committee: [Signature]  
Date: 

Approved by Faculty Senate: [Signature]  
Date: 

09/04/09 (Revised 1/31/2008)
Form PC

PROGRAM CHANGE FORM

1. Submitted by: Department of Computer Science, Missouri University of Science and Technology

2. Name of Institution (Campus or off-campus residential center in the case of multi-campus institutions) Missouri University of Science and Technology

3. Type of Program Change (Check those that apply):

   ___ Title change only
   ___ Combination program created out of closely allied existing programs
   ___ Option(s) added to existing program(s)
   ___ Addition of certificate program developed from approved existing parent degree
   ___ Addition of free-standing single-semester certificate program
   ___ Delete program(s)
   ___ Delete option(s)
   ___ Program placed on "Inactive Status" list

4. Indicate Program Change or Addition of Options:

<table>
<thead>
<tr>
<th>Before the Proposed Change</th>
<th>After the Proposed Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of Old Program or Certificate Option</td>
<td>Degree</td>
</tr>
<tr>
<td>Pervasive and Mobile Computing</td>
<td>MS</td>
</tr>
</tbody>
</table>

5. Attach a copy of the "before and after" curriculum, as applicable, and a rationale for the proposed change.

Rationale: Pervasive and Mobile Computing has been an area of tremendous growth and opportunity for research and training. This field of specialization is in great demand among academia, industry, and research labs due to its vast application in areas such as tracking, sensing, monitoring, and wireless computing. In Missouri S&T's Department of Computer Science, there is large number of students working towards their Ph.D. and M.S. degree with emphasis in the area of Pervasive and Mobile Computing. The department has several faculty members who have extensive publications, received funding from government agencies and industry, graduated Ph.D./M.S. students, and are teaching classes covering topics such as mobile ad hoc networks, sensor networks, mobile data management, and security. At Missouri S&T, the Department of Computer Science offers many graduate classes in this focus area of research. Students can select five courses from the pool of courses given below to get an emphasis in the area of Pervasive and Mobile Computing.
1. CS 338 Database Systems
2. CS 365 Computer Communication and Networks
3. CS 401 Heterogeneous and Mobile Databases
4. CS 401 Network Performance Monitoring
5. CS 434 Data Mining & Knowledge Discovery
6. CS 437 Web Data Management And XML
7. CS 463 Computer Security
8. CS 465 Advanced Topics in Wireless Networks
9. CS 467 Mobile and Sensor Data Management
10. CS 484 Distributed Systems and Theory
11. CS 468 Advanced Network Security

The students who opt for the concentration in this area of study will take any three classes from CS338, CS401(Heterogeneous and Mobile Databases), CS434, CS437, CS467, CS484 and two classes from CS365, CS401(Network Performance Monitoring), CS465, CS463, and CS468.

6. Intended date of program change, additional options, or "Inactive Status":

   Month/Year
   Spring 2010

   AUTHORIZATION

   Ali Hurson, CS professor and Chair [Signature] [Date]
   Name/Title of Institutional Officer

   Ali Hurson [Signature]
   Person to Contact for More Information [Telephone Number]
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
(Choose 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: 370
   - Proposed:

3. **Course Title:**
   - Present: Toxicology
   - Proposed:

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

4. **Catalog Description (40 Words or Less):**
   - Present:
   - Proposed:

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

6. **Credit Hours:**
   - Present: Lecture: 3
   - Proposed: Lecture: Lab: NA Total: 3

7. **Prerequisites:**
   - Present:
     Bio 211 plus either Bio 215 or 242
   - Proposed:
     Bio 211 and Bio 231 and at least junior standing

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

9. **Justification:**
   Prerequisites are being modified to ensure students will have proper background for this topic.

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: 10/12/09

   Date: 10/14/09

   Date: __________

   Date: __________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes

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

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

1. School/College: N/A  Department: Business

2. Discipline and Course Number: Present: BUS 405  Proposed:

3. Course Title: Present: Advanced Accounting Essentials
   Proposed: Graduate Accounting Essentials
   Abbreviated Course Title: Grad Acct Essentials
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   Present: This course is an introduction to the essentials of financial and managerial accounting for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.
   Proposed: This course is an intro to the essentials of financial & managerial accounting for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours: Present: Lecture: 1.5  Lab: Total: 1.5
   Proposed: Lecture: 1.5  Lab: Total: 1.5

6. Prerequisites:
   Present: Bachelor Degree
   Proposed:

7. Required for Majors: □  Elective for Majors: □

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BUS 301B in FS07 and BUS 405 in SP08.

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

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

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

   Recommended by Department
   (Chair signature)

   Recommended by School/College
   (Dean signature)

   Recommended by UMR Curricula Committee:
   (Chair signature)

   Recommended by Academic Council:
   (Chair signature)

   Date: 9/9/09
   Date: 9/23/09

   (Revised 2/14/02)
Effective Term: SP10

CC File # 7737-2009-BUS-406-33

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. School/College: N/A
   Department: Business

2. Discipline and Course Number: Present: BUS 406
   Proposed:

3. Course Title: Present: Graduate Management and Business Law Essentials
   Proposed: Graduate Management and Business Law Essentials
   Abbreviated Course Title: Grad Mgmt Essentials
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   Present:
   This course is an introduction to the essentials of management and business law for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course cannot be applied to any major or minor in business, IST, or economics.
   Proposed:
   This course is an intro to the essentials of management and business law for running a business. It’s designed for students planning to enter the MBA program who need this area & for non-business students who want some business background. Credit cannot be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours:
   Present: Lecture: 1.5 Lab: Total: 1.5
   Proposed: Lecture: 1.5 Lab: Total: 1.5

6. Prerequisites:
   Present: Bachelor Degree
   Proposed:

7. Required for Majors: □ Elective for Majors: □

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BUS 301C in FS07 and BUS 406 in SP08.

9. Semesters previously offered as an experimental course (101, 201, 301, 401):
10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

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

   Recommended by Department: ____________________________
   (Chair signature) Date: 9/9/09

   Recommended by School/College: ____________________________
   (Dean signature) Date: 9/23/09

   Recommended by UMR Curricula Committee: ____________________________
   (Chair signature) Date: ____________________________ (Action)

   Recommended by Academic Council: ____________________________
   (Chair signature) Date: ____________________________ (Action)

(Revised 2/14/02)

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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. School/College: N/A
   Department: Business
2. Discipline and Course Number: Present: MKT 407  Proposed:
3. Course Title: Present: Marketing and Strategy Essentials  Proposed: Graduate Marketing and Strategy Essentials
   Abbreviated Course Title: Grad Mktg Essentials
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: This course is an introduction to the essentials of marketing and strategy for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.
   Proposed: This course is an intro to the essentials of marketing and strategy for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST or economics. Additional case or report required.
5. Credit Hours:
   Present: Lecture: 1.5  Lab: Total: 1.5
   Proposed: Lecture: 1.5  Lab: Total: 1.5
6. Prerequisites:
   Present: Bachelor Degree or Senior Standing. Not open to IST or Business & Mngmt Systems majors or minors
   Proposed: Bachelor Degree
7. Required for Majors: ☐  Elective for Majors: ☐
8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BuS 301E in FS07 and BuS 407 in SP08.
9. Semesters previously offered as an experimental course (101, 201, 301, 401):
10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

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

   Recommended by Department: Caroline Tedos
   (Chair signature)  Date: 9/9/09

   Recommended by School/College: [Signature]
   (Dean signature)  Date: 9/23/09

   Recommended by UMR Curricula Committee: [Signature]
   (Chair signature)  Date: (Action)

   Recommended by Academic Council: [Signature]
   (Chair signature)  Date: (Action)

(Revised 2/14/02)

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. School/College: N/A
   Department: Business

2. Discipline and Course Number:
   Present: BUS 408
   Proposed:

3. Course Title:
   Present: Graduate Operations Management Essentials
   Proposed: Graduate Operations Management Essentials
   Abbreviated Course Title: Grad Oprations Essn.
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   Present: This course is an intro to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.
   Proposed: This course is an intro to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours:
   Present: Lecture: 1.5  Lab: Total: 1.5
   Proposed: Lecture: 1.5  Lab: Total: 1.5

6. Prerequisites:
   Present: Bachelor Degree
   Proposed:

7. Required for Majors: □
   Elective for Majors: □

8. Justification:
   This course is required for a Business Essentials Certificate that has been approved. It has been taught as an BUS 301A in FS07 and BUS 408 in SP08.

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

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

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

   Recommended by Department  
   Date: 9/8/09
   (Chair signature)

   Recommended by School/College  
   Date: 9/23/09
   (Dean signature)

   Recommended by UMR Curricula Committee:
   Date: (Action)
   (Chair signature)

   Recommended by Academic Council:
   Date: (Action)
   (Chair signature)

(Revised 2/14/02)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
- New Course
- Course Deletion
- Credit Hours
- Prerequisites

Course Title
- Catalog Description
- Course Number
- Co-listing

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

1. School/College: N/A
   Department: Business

2. Discipline and Course Number:
   Present: BUS 409
   Proposed:

3. Course Title:
   Present: Graduate Mathematics and Statistics Essentials
   Proposed: Graduate Mathematics and Statistics Essentials

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

4. Catalog Description
   (40 Words or Less)
   Present:
   This course is an introduction to the essentials of mathematics and statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

   Proposed:
   This course is an intro to the essentials of mathematics & statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours:
   Present: Lecture: 1.5 Lab: Total: 1.5
   Proposed: Lecture: 1.5 Lab: Total: 1.5

6. Prerequisites:
   Present: Bachelor Degree
   Proposed:

7. Required for Majors: ☐ Elective for Majors: ☐

8. Justification:
   This course is required for a Business Essentials Certificate that has been approved. It has been taught as an BUS 301F in FS07 and BUS 409 in SP08.

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

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

   1) 4) Date: 9/9/09
   2) 5)
   3) 6)

   Recommended by Department
   Chair signature
   Date: 9/24/09

   Recommended by School/College
   Dean signature
   Date: 9/24/09

   Recommended by UMR Curricula Committee
   Chair signature
   Date:

   Recommended by Academic Council
   Chair signature
   Date:

(Revised 2/14/02)

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Effective Year: 2010  
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: Psychological Science
2. Discipline and Course Number:  Present: Psych 154  Proposed:
3. Course Title:  Present: Psych Personal Adjustment  
Proposed:  
Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description  
(40 Words 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:  
Proposed:

8. Required for Majors: ☐  Elective for Majors: ☐
9. Justification:  This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

Recommended by Department  

(Nancy Stone)  
(Date: 9/9/09)

Recommended by Discipline Specific Curricula Committee  

(Ray Haddad)  
(Date: 9/23/09)

Approved by Curricula Committee:  

(Chair signature)  
(Date:  

Approved by Faculty Senate:  

(Chair signature)  
(Date:  

08/21/09

(Revised 1/31/09)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Click 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: Psychological Science
2. Discipline and Course Number: Present: Psych 246 Proposed:
3. Course Title: Present: Motivation and Emotion Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: [ ] Elective for Majors: [ ]
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

Recommended by Department

Nancy Stone
(Chair signature)
Date: 9/9/09

Recommended by Discipline Specific Curricula Committee

Ray Hadwich
(Chair signature)
Date: 9/23/09

Approved by Curricula Committee:
(Chair signature)
Date:

Approved by Faculty Senate:
(Chair signature)
Date: 8/21/09

(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: Biological Sciences

2. Discipline and Course Number: Present: Bio Sci 322 Proposed:

3. Course Title: Present: Pathogenic Microbio Lab Proposed:

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

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

Recommended by Department: [Signature] Date: 7/10/09

Recommended by Discipline Specific Curricula Committee: [Signature] Date: 6/14/2009

Approved by Curricula Committee: [Signature] Date:

Approved by Faculty Senate: [Signature] Date:

(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: Biological Sciences
2. Discipline and Course Number: Present: Bio Sci 365  Proposed:
3. Course Title: Present: Comparative Animal Physi  Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

Recommended by Department ____________________________ Date:  9/1/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date:  9/1/09
(Chair signature)

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

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

(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-registering □

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: Bio Sci 376 Proposed:
3. Course Title: Present: Adv Bio Lab Tech II Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □
9. Elective for Majors: □
10. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.
11. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1) 2) 3) 4) 5) 6)
   Recommended by Department: □ (Chair signature) Date: 9/10/09
   Recommended by Discipline Specific Curricula Committee: (Chair signature) Date: 11/11/09
   Approved by Curricula Committee: (Chair signature) Date: □
   Approved by Faculty Senate: (Chair signature) Date: □

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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: History and Political Science
2. Discipline and Course Number: Present: History 347  Proposed:
3. Course Title: Present: Orgns Mod Amer 1877-1920  Proposed:
   Abbreviated Course Title:  
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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: 
   Proposed: 
8. Required for Majors: □  Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.
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: 9/4/09 

Recommended by Discipline Specific Curricula Committee:  
   (Chair signature)  
   Date: 9/21/09 

Approved by Curricula Committee:  
   (Chair signature)  
   Date: 

Approved by Faculty Senate:  
   (Chair signature)  
   Date: 

08/21/09 

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(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 Deletions ☒ 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: History and Political Science
2. Discipline and Course Number: Present: History 351 Proposed:
3. Course Title: Present: Amer Intellectual Hist I Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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.
   2)  3)  4)  5)  6)

Recommended by Department ____________________________ Date: 9/4/09
(Chair signature)  

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/21/09
(Chair signature)  

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

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

08/21/09

This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com
Effective Year: 2010
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: History and Political Science
2. Discipline and Course Number: Present: History 355  Proposed:
3. Course Title:
   Present: History Of Black America
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: □  Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to
   teach it in the near future.

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: 9/4/09

Recommended by Discipline Specific Curricula Committee 
(Chair signature) 
Date: 9/28/09

Approved by Curricula Committee:  
(Chair signature) 
Date: 

Approved by Faculty Senate:  
(Chair signature) 
Date: 

(Revised 1/31/09)
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 □
- 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: History and Political Science
2. Discipline and Course Number: Present: History 356 Proposed:
3. Course Title: Present: Hist-The American City Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 3/4/09
Recommended by Discipline Specific Curricula Committee: (Chair signature) Date: 3/21/09
Approved by Curricula Committee: (Chair signature) Date: 
Approved by Faculty Senate: (Chair signature) Date: 

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: History and Political Science
2. Discipline and Course Number: Present: History 360 Proposed:
3. Course Title: Present: Hist Of Amer Family Proposed:
   - Abbreviated Course Title:
     (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: □
   Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 7/4/09
Date: 9/21/09
(Revised 1/31/08)

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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: History and Political Science

2. Discipline and Course Number: Present: History 402  Proposed:

3. Course Title: Present: Rdgs Am Hist To 1865  Proposed:

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

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 7/4/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee ___________________________ Date: 9/21/09
(Chair signature)

Approved by Curricula Committee: ___________________________ Date: ______
(Chair signature)

Approved by Faculty Senate: ___________________________ Date: ______
(Chair signature)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: History and Political Science
2. Discipline and Course Number: Present: Pol Sci 250
   Proposed:
3. Course Title: Present: State and Local Politics
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 5/14/99

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)
   Date: 5/21/99

   Approved by Curricula Committee:
   (Chair signature)
   Date: 

   Approved by Faculty Senate:
   (Chair signature)
   Date: 

   (Revised 1/31/08)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. School/College: 
   Department: Bus & Info Tech

2. Discipline and Course Number:
   Present: Essentials of Data Warehouses
   Proposed: ERP 444

3. Course Title:
   Present: Essentials of Data Warehouses
   Proposed:
   Abbreviated Course Title: Data Warehouses
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   Present:
   This course presents the topic of data warehouses and the value to the organization. It takes
   the student from the database platform to structuring a data warehouse environment. Focus
   is placed on simplicity and addressing the user community needs.
   Proposed:

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

6. Prerequisites:
   Present: IST 223 or equivalent relational database experience
   Proposed:

7. Required for Majors: [ ]
   Elective for Majors: [X]

8. Justification:
   Create course as co-list for IST 444 in order to have ERP designation for ERP Graduate
   Certificate.

9. Semesters previously offered as an experimental course (101, 201, 301, 401):
10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.
    1) IST 444
    4) 
    2) 
    5) 
    3) 
    6) 

   Recommended by Department
   Chair signature
   Date: 9/17/09

   Recommended by School/College
   Dean signature
   Date: 9/23/09

   Recommended by UMR Curricula Committee
   Date: (Action)

   Recommended by Academic Council
   Chair signature
   Date: (Action)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes

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

Course Information

1. Department: Chemical Engineering
2. Discipline and Course Number: Present: Chem Eng 366 Proposed:
3. Course Title: Present: Chem Process Simulation Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

Recommended by Department
(Chair signature) Date: 9/4/09

Recommended by Discipline Specific Curricula Committee
(Chair signature) Date: 9/28/09

Approved by Curricula Committee:
(Chair signature) Date:

Approved by Faculty Senate:
(Chair signature)

Revised 1/31/09
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: Mining and Nuclear Engineering
2. Discipline and Course Numbers: Present: Min Eng 340 Proposed:
3. Course Title: Present: Rock Mechanics 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:
Proposed:

5. If course requires field trip check box: ☐
6. Credit Hours:
Present:
Proposed:
Lecture: Lab: Total:
Lecture: Lab: Total:

7. Prerequisites:
Present:
Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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
(Chair signature)
Date: 09/15/09

Recommended by Discipline Specific Curricula Committee
(Chair signature)
Date: 9-14-09

Approved by Curricula Committee:
(Chair signature)
Date: 

Approved by Faculty Senate:
(Chair signature)
Date: 

(Revised 11/31/09)
Course Change Form (CC)

Course Changes (Check all changes.)
New Course [ ]  Course Deletion [x]  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 Eng 308  Proposed:
3. Course Title: Present: Drilling and Blasting  Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:  Proposed:

8. Required for Majors: [ ]  Elective for Majors: [ ]
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

   Recommended by Department: [Chair signature]  Date: 09/15/09
   Recommended by Discipline Specific Curricula Committee: [Chair signature]  Date: 09/18/09
   Approved by Curricula Committee: [Chair signature]  Date: 
   Approved by Faculty Senate: [Chair signature]  Date: 

09/21/09
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:
   Mining and Nuclear Engineering

2. Discipline and Course Number:
   Present: Min Eng 405
   Proposed:

3. Course Title:
   Present: Non-Explosives Rock Frag
   Proposed:

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

4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors:
   Elective for Majors:

9. Justification:
   This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

   1)  
   2)  
   3)  

4)  

   Recommended by Department:

   [Signature]

   Date: 09/15/09

5)  

   Recommended by Discipline Specific Curricula Committee:

   [Signature]

   Date: 09/15/09

6)  

   Approved by Curricula Committee:

   [Signature]

   Date: 

7)  

   Approved by Faculty Senate:

   [Signature]

   Date: 

(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: Biological Sciences  Bi o
2. Discipline and Course Number: Present: 301  Proposed: 382
3. Course Title: Present: Neurobiology  Proposed:
   Abbreviated Course Title: Neurobiology
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present:

   Proposed: An intermediate course in cellular neurobiology. Emphasis will be placed on the unique
   properties of neurons and other excitable cells. Topics covered include the structure and
   biophysical properties of neurons, synaptic transmission, neurochemistry, signal transduction,
   neuropharmacology and neurodevelopment

5. If course requires field trip check box: ☐

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

7. Prerequisites:
   Present: Bio 211
   Proposed: Bio 211

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

9. Justification: Course has been taught twice as 301 and is now being given a regular number.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP 2007, SP 2009
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

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

   Recommended by Department  [Signature]
   (Chair signature)  Date: 9/1/09

   Recommended by Discipline Specific Curricula Committee  [Signature]
   (Chair signature)  Date: 6/14/09

   Approved by Curricula Committee:  [Signature]
   (Chair signature)  Date: 

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

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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: EMSE
2. Discipline and Course Number: Present: SysEng 368 Proposed:
3. Course Title: Present: System Engineering and Analysis I 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: The concepts of Systems Engineering are covered. The objective is to provide the basic
   knowledge and tools of transforming an operational need into a defined system configuration through
   the iterative process of analysis, system integration, synthesis, optimization, and design.
   Proposed: The concepts of Systems Engineering are introduced through a project. Students work in
   virtual teams. The topics covered are architecture development, basic system architectural
   design techniques, functional decomposition, design and technical review objectives, and
   initial specifications.
5. If course requires field trip check box ☐
6. Credit Hours:
   Present: Lecture: 3 Lab: Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Graduate or senior standing
   Proposed:
8. Required for Majors: ☒ Elective for Majors: ☐
9. Justification: To provide better integration within the six systems engineering core courses.

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: 04/09/09
   Recommended by Discipline Specific Curricula Committee [Signature] [Chair signature] Date: 9/26/09
   Approved by Curricula Committee: [Signature] [Chair signature]
   Approved by Faculty Senate: [Signature] [Chair signature]

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

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)

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

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

1. Department: EMSE
2. Discipline and Course Number: Present: SysEng 411 Proposed:
   Abbreviated Course Title: SysEng Capstone
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: This course covers modern methods of effective management of complex systems, and systems of systems. Effective team building and integrated product and process development in a diverse and global work environment is the central theme. Topics include leadership, quality tools, concurrent engineering
   Proposed: The topics covered are Systems Engineering Management Plan (SEMP), Systems Engineering processes, process re-engineering, standards, and systems engineering case studies. Students will apply the skills and theory that they mastered in previous five core courses to the analysis of assigned cases.
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: 3 Lab: Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Graduate Standing
   Proposed: SysEng 469, 412, and 413. Can be taken concurrently with SysEng 469 with consent of instructor.
8. Required for Majors: □ Elective for Majors: □
9. Justification: A capstone course is an ABET requirement for engineering graduate programs. SysEng 411 is restructured to fulfill this need and its name has been changed. This course integrates all the skills and theory mastered in previous five core courses.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   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: 09/07/09
Date: 9-18-09
Date: 
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 Title □
- Course Deletion □
- Catalog Description □
- Credit Hours □
- Course Number □
- Prerequisites □
- 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: SysEng 412 Proposed:
3. Course Title: Present: Complex Engineering Systems Project 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:
   The course topics include issues specific to distributed project management, team development, resource management, constraint planning, development of Integrated Master Schedule and Integrated Master Plan, monitoring technical performance, schedule, cost, and risk.
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lectures: 3 Lab: Total: 3
   Proposed: Lectures: Lab: Total:
7. Prerequisites:
   Present: Graduate Standing
   Proposed: SysEng 468. Can be taken concurrently with SysEng 468 with consent of instructor.
8. Required for Majors: □
   Elective for Majors: □
9. Justification: To provide better integration within the six systems engineering core courses.

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: 09/27/09
Date: 09/27/09
Date: 09/27/09
Date: 09/27/09

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

This form is for creating or modifying permanent courses.

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

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

1. Department: EMSE
2. Discipline and Course Number: Present: SysEng 413 Proposed: 
   Abbreviated Course Title: Economic Analysis SysEng
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: Economic evaluation of complex engineering systems for government defense and commercial industries; choosing system alternatives using engineering economic analysis; quantitative techniques for evaluating non-monetary consequences; life cycle costing; formal treatment of risk, uncertainty, and project cost monitoring.
   Proposed: Methods of economic evaluation for engineering projects involving complex systems. Economic impacts on choosing system alternatives, life cycle costing, economic decisions involving risk and uncertainty, and engineering cost estimation for projects in government, defense, and commercial industries.
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: 3 Lab: Total: 3
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Graduate Standing
   Proposed: SysEng 368; can be taken concurrently with SysEng 368 with consent of instructor
8. Required for Majors: □ Elective for Majors: □
9. Justification: New title is more representative of course scope and topics. Changes to description provides for better integration with the five other systems engineering core courses.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)
   Recommended by Department (Chair signature) Date: 07/07/03
   Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 03/17/09
   Approved by Curricula Committee: (Chair signature) Date: 
   Approved by Faculty Senate: (Chair signature) Date: 

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: EMSE
2. Discipline and Course Number: Present: 468 Proposed:

3. Course Title:
   Present: Systems Engineering Analysis II
   Proposed: Systems Engineering Analysis II

4. Catalog Description
   Present: The objective is to provide the advanced knowledge and tools of transforming an operational need into a defined system configuration through the iterative process of analysis, systems integration, synthesis, optimization and design. These tools and concepts are reinforced with projects/case studies.
   Proposed: This course uses customized case studies based on team projects from prior courses. Topics covered include physical and functional analysis, analysis and traceability of requirements and specifications, verification and validation, optimization, simulation, and trade studies.

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: none
   Proposed: SysEng 368.

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

9. Justification:
   In order to better prepare the graduate certificate and masters students in systems engineering.

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: 9/18/09
   Date: 9/18/09
   Date: 9/18/09

   (Revised 1/39/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

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

1. Department: EMSE
2. Discipline and Course Number: Present: SysEng 469 Proposed:
3. Course Title: Present: Systems Architecting 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:** The objective of the course is to provide the basic tools and concepts of systems architecting for complex systems design and operations. The following topics are covered: The need for the architect and architecting teams, the process of architecting, architecting methods, Design of Architectures.
   
   **Proposed:** The objective of the course is to provide the basic tools and concepts of architecting complex engineering systems. Systems thinking, ambiguity in system architecting, search as an architecting process, SysML and DoDAF Architecting Framework, System of Systems and Network-Centric Architectures.

5. If course requires field trip check box: □
6. Credit Hours: Present: Lecture: 3 Lab: Total: 3 Proposed: Lecture: Lab: Total:
7. Prerequisites: Present: Graduate standing Proposed: SysEng 468, can be taken concurrently with SysEng 468 with consent of instructor.
8. Required for Majors: □ Elective for Majors: □
9. Justification: To provide better integration within the six systems engineering core courses.

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:

   (Chair signature)
   (Chair signature)
   (Chair signature)

   Date: 9/16/09
   Date: __________
   Date: __________

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

This form is for creating or modifying permanent courses.

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

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Geological Science and Engineering
2. Discipline and Course Number: Present: Geology 211
   Proposed:
3. Course Title: Present: Optical Mineralogy
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors:
   Elective for Majors:
9. Justification: This course has not been taught within the past 10 years, and there are no plans to
teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5)
   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: 9/14/09
Date: 10/14/2009
Date:
Date:

(Revised 1/31/08)

08/21/09

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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 Science and Engineering
2. Discipline and Course Number: Present: Geology 411 Proposed:
3. Course Title: Present: Advanced Mineralogy Proposed:
   - Abbreviated Course Title:
     (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present:
   Proposed:

5. If course requires field trip check box: □

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

7. Prerequisites:
   - Present:
   - Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

Recommended by Department ____________________________
   (Chair signature)  Date: 9/1/09

Recommended by Discipline Specific Curricula Committee ____________________________
   (Chair signature)  Date: 6/16/2009

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

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

(Revised 1/31/08)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
- [ ] New Course
- [x] 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 433  Proposed:
3. Course Title: Present: Theory of Compiling
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: [ ] Elective for Majors: [ ]
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

   Recommended by Department ____________________________  Date: ____________
   (Chair signature)  

   Recommended by Discipline Specific Curricula Committee _________________________  Date: ____________
   (Chair signature)  

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

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

(Revised 1/31/08)
Effective Year: 2010
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: Engineering Management and Systems Engineering
2. Discipline and Course Number: Present: Eng Mgt 317 Proposed:
3. Course Title: Present: Compar & Multi-Nati Mgt Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

Recommended by Department ____________________________ Date: 9/11/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/30/09
(Chair signature)

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

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

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Engineering Management and Systems Engineering
2. Discipline and Course Number: Present: Eng Mgt 389 Proposed:
3. Course Title: Present: Packaging Materials II Proposed:

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

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

   Recommended by Department: [Signature]
   Date: 7/16/09

   Recommended by Discipline Specific Curricula Committee: [Signature]
   Date: 9/30/09

   Approved by Curricula Committee:
   Date:

   Approved by Faculty Senate:
   Date:

(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: Materials Science & Engineering
2. Discipline and Course Number: Present: Cer201
   Proposed: Cer201
3. Course Title:
   Proposed: Special Topics
   Abbreviated Course Title: Special topics
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: This course is designed to give the department an opportunity to test a new course. Variable Title.

5. If course requires field trip check box: □
6. Credit Hours:
   Present:
   Lecture: □
   Lab: □
   Total: 0-6
7. Prerequisites:
   Present:
   Proposed: variable
8. Required for Majors: □

   Elective for Majors: □
9. Justification: To allow department to create experimental courses at the undergraduate level
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1)
   2)
   3)
   4)
   5)

   Recommended by Department
   [Signature]
   Date: 9/3/09

   Recommended by Discipline Specific Curricula Committee
   [Signature]
   Date: 9-25-09

   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
(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: Physics

2. Discipline and Course Number: Present: Physics 4 Proposed:

3. Course Title: Present: Concepts in Physics Proposed:
Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9-4-09

Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 10/14/09

Approved by Curricula Committee: (Chair signature) Date:

Approved by Faculty Senate: (Chair signature) Date:

08/21/09

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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:** Physics
2. **Discipline and Course Number:** Present: Physics 5
   Proposed:
3. **Course Title:** Present: Concepts in Physics Lab
   Proposed:
   **Abbreviated Course Title:** (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Proposed:
4. **Catalog Description** (40 Words or Less)
   Present:
   Proposed:

5. If course requires field trip check box: □
6. **Credit Hours:**
   - Present:
   - Proposed:

7. **Prerequisites:**
   - Present:
   - Proposed:

8. **Required for Majors:** □
   **Elective for Majors:** □
9. **Justification:** This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

   **Recommended by Department**
   
   **Date:** 9-4-09

   **Recommended by Discipline Specific Curricula Committee**
   
   **Date:** 10/14/09

   **Approved by Curricula Committee:**
   
   **Date:**

   **Approved by Faculty Senate:**
   
   **Date:**

   (Revised 1/31/08)

08/21/09

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
New Course □ Course Deletion X 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: Physics
2. Discipline and Course Number: Present: Physics 7 Proposed:
3. Course Title: Present: Environmental Physics II Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:

   Proposed:

5. If course requires field trip check box: □
6. Credit Hours: Present: Lecture: Lab: Total: Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present:

   Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initialiaed by Dept. Chair, if signature does not appear below.
   1)  2)  3)
   4)  5)  6)
   Recommended by Department (Chair signature) Date: 9/4/09
   Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 10/13/2009
   Approved by Curricula Committee: (Chair signature) Date:
   Approved by Faculty Senate: (Chair signature) Date:

(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: Physics
2. Discipline and Course Number: Present: Physics 27  Proposed:
3. Course Title: Present: General Physics Lab  Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □  Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1)  2)  3)  4)  5)  6)  Date: 9-4-09

   Recommended by Department  (Chair signature)

   Recommended by Discipline Specific Curricula Committee  (Chair signature)
   Date: 10/14/2009

   Approved by Curricula Committee:  (Chair signature)  Date: 

   Approved by Faculty Senate:  (Chair signature)  Date: 

08/21/09  (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: Physics
2. Discipline and Course Number: Present: Physics 28 Proposed:
3. Course Title: Present: General Physics Lab Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.) Proposed:
4. Catalog Description (40 Words 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: Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9-4-09

Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 10/4/2009

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

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

08/21/09

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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: Physics
2. Discipline and Course Number:  Present: Physics 337  Proposed:
3. Course Title:  Present: Atmospheric Science  Proposed:
   Abbreviated Course Title:  (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:  Proposed:
4. Catalog Description  (40 Words 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:  Proposed:

8. Required for Majors: □  Elective for Majors: □
9. Justification:  This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9-4-09

Recommended by Discipline Specific Curricula Committee  ___________________________
   (Chair signature)  Date: 10/16/2009

Approved by Curricula Committee:  ___________________________
   (Chair signature)  Date: __________

Approved by Faculty Senate:  ___________________________
   (Chair signature)  Date: __________
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 Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Physics
2. Discipline and Course Number: Present: Physics 435 Proposed:
3. Course Title: Present: Cloud Physics Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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.
12) 13)
14) 15) 16)

Recommended by Department [Signature] Date: 9-4-09
Recommended by Discipline Specific Curricula Committee [Signature] Date: 10/4/2009
Approved by Curricula Committee: [Signature] Date:
Approved by Faculty Senate: [Signature] Date:

08/21/09

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes

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

Course Information

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

1. Department: Chemistry
2. Discipline and Course Number: Present: Chem 447 Proposed:
3. Course Title: Present: Statistical Thermodynamics Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/1/2009

Recommended by Discipline Specific Curricula Committee ___________________________ (Chair signature) Date: 10/1/2009

Approved by Curricula Committee: ___________________________ (Chair signature) Date: __________

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

(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 [x]
- 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: Chemistry

2. Discipline and Course Number: Present: Chem 442 Proposed:

3. Course Title: Present: Neutron Diffraction Proposed:

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

   Proposed:

4. Catalog Description (40 Words 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:

   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

   1)  2)  3)  4)  5)

Recommended by Department
(Chair signature) Date: 9/16/09

Recommended by Discipline Specific Curricula Committee
(Chair signature) Date: 10/14/2009

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

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

(Revised 1/31/08)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
- New Course □
- Course Deletion X
- 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: Chemistry
2. Discipline and Course Number: Present: Chem 431 Proposed:
3. Course Title: Present: Inorganic Reaction Mech Proposed:
   **Abbreviated Course Title:**
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Proposed:
4. Catalog Description (40 Words or Less)
   Present:
   Proposed:

5. If course requires field trip check box: □

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

7. Prerequisites:
   Present:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

   Recommended by Department (Chair signature) Date: 9/14/08
   Recommended by Discipline Specific Curricula Committee (Chair signature) Date: 10/16/2008
   Approved by Curricula Committee: (Chair signature) Date: 
   Approved by Faculty Senate: (Chair signature) Date: 

(Revised 1/31/08)

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**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)
- New Course □
- Course Deletion X
- 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: Chemistry

2. Discipline and Course Number: Present: Chem 421 Proposed:

3. Course Title: Present: Adv Organic Chemistry Proposed:

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

   Present:

   Proposed:

4. Catalog Description (40 Words 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:

   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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

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

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

   Recommended by Department ____________________________ (Chair signature) Date: 9/16/05

   Recommended by Discipline Specific Curricula Committee ____________________________ (Chair signature) Date: 10/24/05

   Approved by Curricula Committee: ____________________________ Date: __________

   Approved by Faculty Senate: ____________________________ Date: __________

(Revised 1/51/08)
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: Chemistry
2. Discipline and Course Number:  Present: Chem 212  Proposed:
3. Course Title:  Present: Science Teaching
   Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification:  This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/10/09

   Recommended by Discipline Specific Curricula Committee  (Chair signature)
   Date: 10/14/2009

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

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

(Revised 1/31/08)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Sociology 260   Proposed:
3. Course Title: Present: Deviant Behavior
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: ☐    Elective for Majors: ☐
9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09
Recommended by Discipline Specific Curricula Committee ____________________________ Date: 8/31/09
Approved by Curricula Committee: ____________________________ (Chair signature) Date: 
Approved by Faculty Senate: ____________________________ (Chair signature) Date: 
Effective Year: 2010
Effective Term: Summer ☐ Fall ☐ Spring ☒

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

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

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

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present: Sociology 281 Proposed:

3. Course Title: Present: Family and Marriage
Proposed:

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

4. Catalog Description (40 Words 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:
Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09

Recommended by Discipline Specific Curricula Committee ____________________________ (Chair signature) Date: 8/31/09

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

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

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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:** Arts, Languages and Philosophy
2. **Discipline and Course Number:** 
   - Present: Sociology 100
   - Proposed:
3. **Course Title:** 
   - Present: Special Problems
   - Proposed:
   - Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description (40 Words or Less)**
   - Present:
   - Proposed:

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

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

7. **Prerequisites:**
   - Present: 
   - Proposed:

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

9. **Justification:** The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09

Recommended by Discipline Specific Curricula Committee ____________________________
(Chair signature) ____________________________ Date: 8/31/09

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

Approved by Faculty Senate: ____________________________
(Chair signature) ____________________________ Date: ____________________________
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:** Arts, Languages and Philosophy
2. **Discipline and Course Number:**  
   Present: Sociology 101  
   Proposed:
3. **Course Title:**  
   Present: Special Topics  
   Proposed:
   **Abbreviated Course Title:**  
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. **Catalog Description** (40 Words or Less)
   Present:
   Proposed:
5. **If course requires field trip check box:** □
6. **Credit Hours:**  
   Present:  
   Proposed:  
   Lecture:  
   Lab:  
   Total:
7. **Prerequisites:**  
   Present:  
   Proposed:
8. **Required for Majors:** □  
   **Elective for Majors:** □
9. **Justification:**  
   The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.
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: 8/31/09

   **Recommended by Discipline Specific Curricula Committee**  
   (Chair signature)  
   Date: 8/31/09

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

   **Approved by Faculty Senate:**  
   (Chair signature)  
   Date: 
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: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Sociology 105  Proposed:
3. Course Title: Present: Social Organization
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09

Recommended by Discipline Specific Curricula Committee ____________________________
   (Chair signature)
   Date: 8/31/09

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

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

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course [ ]
- Course Deletion [x]
- Credit Hours [ ]
- Prerequisites [ ]

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

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present: Sociology 200 Proposed:

3. Course Title: Present: Special Problems Proposed:

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

4. Catalog Description (40 Words 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:

   Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 5/3/09

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 5/3/09

Approved by Curricula Committee: ____________________________ (Chair signature)

Approved by Faculty Senate: ____________________________ (Chair signature)

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

Course Information
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Sociology 201 Proposed:
3. Course Title: Present: Special Topics Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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

Recommended by Department ____________________________ (Chair signature)
Date: 6/30/09

Recommended by Discipline Specific Curricula Committee ____________________________
(Chair signature)
Date: 6/31/09

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

Approved by Faculty Senate: ____________________________
(Chair signature)
Date: __________
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: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Sociology 210 Proposed:
3. Course Title: Present: Seminar Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 3/1/09

Recommended by Discipline Specific Curricula Committee __________________________ (Chair signature) Date: 8/31/09

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

Approved by Faculty Senate: __________________________ (Chair signature) Date:
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Click 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: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Sociology 300 Proposed:
3. Course Title: Present: Special Problems
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09

Recommended by Discipline Specific Curricula Committee ____________________________ (Chair signature) Date: 8/31/09

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

Approved by Faculty Senate: ____________________________ (Chair signature) Date: __________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. **Department:** Arts, Languages and Philosophy
2. **Discipline and Course Number:**
   - Present: Sociology 301
   - Proposed: 
3. **Course Title:**
   - Present: Special Topics
   - Proposed: 
   - Abbreviated Course Title: 
   - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description**
   - (40 Words or Less)
   - Present: 
   - Proposed: 
5. **If course requires field trip check box:** ☐
6. **Credit Hours:**
   - Present: 
   - Proposed: 
   - Lecture: 
   - Lab: 
   - Total: 
7. **Prerequisites:**
   - Present: 
   - Proposed: 
8. **Required for Majors:** ☐
   - Elective for Majors: ☐
9. **Justification:**
The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/31/09
   - Recommended by Discipline Specific Curricula Committee ____________________
   - (Chair signature) __________________________
   - Date: 8/31/09
   - Approved by Curricula Committee: ____________________
   - (Chair signature) __________________________
   - Date: ___________
   - Approved by Faculty Senate: ____________________
   - (Chair signature) __________________________
   - Date: ___________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present: Sociology 310 Proposed:

3. Course Title: Present: Seminar Proposed:

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

4. Catalog Description (40 Words 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:

Proposed:

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

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

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: 8/21/09
   (Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 8/31/09
   (Chair signature)

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

Approved by Faculty Senate: ____________________________ Date: __________
   (Chair signature)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: German 90 Proposed:
3. Course Title: Present: Scientific German Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/13/09
   Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/16/09
   Approved by Curricula Committee: ____________________________ (Chair signature) Date: _________
   Approved by Faculty Senate: ____________________________ (Chair signature) Date: _________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

Course Information
- Abbreviated Course Title:
  (24 Spaces or Less. Only needed for New Courses or Title Changes.)
- Catalog Description (40 Words or Less)

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: German 180
3. Course Title: Present: Basic German Composition
   Proposed:

   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □
   Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/13/02
Date: 9/16/09

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

Course Changes
(Choose 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: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: German 311  Proposed:
3. Course Title: Present: Adv German Conversation
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/3/02

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/16/09

Approved by Curricula Committee: ________________________________ Date: __________________

Approved by Faculty Senate: ___________________________________________ Date: __________________

(Revised 1/31/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

**Course Information**
1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: German 402 Proposed:
3. Course Title: Present: Beg Ger For Grad Students Proposed:
   - Abbreviated Course Title:
   - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   - Proposed:
8. Required for Majors: □
   - Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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) Date: 9/1/09

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: ____________________________

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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:** Arts, Languages and Philosophy
2. **Discipline and Course Number:** Present: French 378  Proposed:
3. **Course Title:** Present: French Theater  
   Proposed:
   - **Abbreviated Course Title:**
     (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description**  
   (40 Words 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:
   Proposed:

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

9. **Justification:** This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/16/09*  
*Date: 9/16/05*

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. **Department:** Arts, Languages and Philosophy
2. **Discipline and Course Number:** Present: Spanish 371  Proposed: 
3. **Course Title:** Present: Surv Of Span Am Lit  Proposed: 
   Abbreviated Course Title: 
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description** (40 Words 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: 
   Proposed: 
8. **Required for Majors:** ☐  **Elective for Majors:** ☐
9. **Justification:** This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/27/09
   Recommended by Discipline Specific Curricula Committee ________________________________
   (Chair signature)
   Date: 9/27/09
   Approved by Curricula Committee: ________________________________  (Chair signature)
   Date: 
   Approved by Faculty Senate: ________________________________  (Chair signature)
   Date: 

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Spanish 60 Proposed:
3. Course Title: Present: Hispanic Civilization Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/17/09
Recommended by Discipline Specific Curricula Committee ____________________________ Date: 9/21/09
Approved by Curricula Committee: ____________________________ Date: ____________________________
Approved by Faculty Senate: ____________________________ Date: ____________________________

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Music 61 Proposed:
3. Course Title: Present: Fundamentals Of Music Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/17/09

   Recommended by Discipline Specific Curricula Committee (Chair signature)
   Date: 9/21/09

   Approved by Curricula Committee: (Chair signature)
   Date:

   Approved by Faculty Senate: (Chair signature)
   Date:
Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Music 152
   Proposed:
3. Course Title: Present: Survey Contemporary Mus
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification:
   This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/17/09

   Recommended by Discipline Specific Curricula Committee ____________________________
   (Chair signature) ____________________________
   Date: 9/21/09

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

   Approved by Faculty Senate: ____________________________
   (Chair signature) ____________________________
   Date: ____________________________
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**

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

**Course Information**

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

1. **Department:** Arts, Languages and Philosophy
2. **Discipline and Course Number:** Present: Music 155  Proposed: 
3. **Course Title:**
   
   - Present: Music in the U. S.
   - Proposed: 

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

4. **Catalog Description** *(40 Words or Less)*
   
   Present: 

   Proposed: 

5. **If course requires field trip check box:** ☐
6. **Credit Hours:**
   
   - Present: 
   - Proposed: 

   **Lecture:**
   
   - Lab: 
   - Total: 
7. **Prerequisites:**
   
   - Present: 

   Proposed: 

8. **Required for Majors:** ☐  **Elective for Majors:** ☐
9. **Justification:** This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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:** __________

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

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

1. **Department:** Arts, Languages and Philosophy
2. **Discipline and Course Number:**
   - Present: Art 251
   - Proposed:
3. **Course Title:**
   - Present: Genre Studies Film & Lit
   - Proposed:
   - Abbreviated Course Title:
     - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description**
   - Present:
   - Proposed:

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

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

7. **Prerequisites:**
   - Present:
   - Proposed:

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

9. **Justification:**
   This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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:** 9/17/09
   **Date:** 9/21/09
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: Arts, Languages and Philosophy
2. Discipline and Course Number: Present: Art 255
   Proposed:
3. Course Title: Present: Script to Screen
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/1/2009
   Recommended by Discipline Specific Curricula Committee [Signature] Date: 9/21/09

   Approved by Curricula Committee: [Signature] Date: 
   Approved by Faculty Senate: [Signature] Date: 

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 202 Proposed:
3. Course Title: Present: COOP Engr Training Proposed:
   **Abbreviated Course Title:**
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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: □
   Proposed: □

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

   Recommended by Department
   (Chair signature)
   Date: 08/13/09

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)
   Date: 10-6-09

   Approved by Curricula Committee:
   (Chair signature)
   Date:

   Approved by Faculty Senate:
   (Chair signature)
   Date:

   (Revised: 1/31/08)

08/19/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 311 Proposed:
3. Course Title: Present: Intro To Continuum Mech Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present:
   Proposed:
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present:
   Proposed:
   Lecture:
   Lab:
   Total:
7. Prerequisites:
   Present:
   Proposed:
8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification:
The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
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: 08/13/09
(Chair signature)
Recommended by Discipline Specific Curricula Committee ____________________________ Date: 09-6-09
(Chair signature)
Approved by Curricula Committee: ____________________________ Date: __________
(Chair signature)
Approved by Faculty Senate: ____________________________ Date: __________
(Chair signature)
(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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 341 Proposed:
3. Course Title: Present: Exper Stress Analysis I Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3) 4) 5) 6)
   Recommended by Department [Signature]
   Recommended by Discipline Specific Curricula Committee [Signature]
   Approved by Curricula Committee: [Signature]
   Approved by Faculty Senate: [Signature]
   Date: [Signature]

08/19/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 373  Proposed:
3. Course Title: Present: Advanced Dynamics  Proposed:
   Abbreviated Course Title:  (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Proposed:
4. Catalog Description (40 Words or Less)
   Present:
   Proposed:

5. If course requires field trip check box: □
6. Credit Hours:  
   Present:  
   Proposed:  
   Lecture:  
   Lab:  
   Total:
7. Prerequisites:
   Present:
   Proposed:
8. Required for Majors: □  Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

Recommended by Department  
(Chair signature)  
Date: 08/31/09

Recommended by Discipline Specific Curricula Committee  
(Chair signature)  
Date: 08/31/09

Approved by Curricula Committee:  
(Chair signature)  
Date:

Approved by Faculty Senate:  
(Chair signature)  
Date:

08/19/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 390 Proposed:
3. Course Title: Present: Undergraduate Research
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

Recommended by Department ____________________________ Date: 08/14/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 10/6/09
(Chair signature)

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

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

08/19/09

This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com
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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 463 Proposed:
3. Course Title: Present: Theor Of Random Vibration Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no
   more students enrolled. All engineering mechanics courses will either be eliminated or
   renamed/renumbered using a curricular designator other than ENG MECH.

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: 08/31/09

   Recommended by Discipline Specific Curricula Committee [Signature] Date: 10-6-09

   Approved by Curricula Committee: [Signature] Date: 

   Approved by Faculty Senate: [Signature] Date: 

08/19/09

This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com
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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 487 Proposed:
3. Course Title: Present: Finite Element Approx III Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:

4. Catalog Description (40 Words 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: Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

Recommended by Department

Recommended by Discipline Specific Curricula Committee

Approved by Curricula Committee:

Approved by Faculty Senate:

Signed: ____________________________ Date: 08/31/09
(Chair signature)

Signed: ____________________________ Date: 10/6/09
(Chair signature)

Signed: ____________________________ Date: ____________
(Chair signature)

Signed: ____________________________ Date: ____________
(Chair signature)

08/19/09
(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 Engineering
2. Discipline and Course Numbers: Present: Engineering Mechanics 10 Proposed:
3. Course Title: Present: Intro to Engineering Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification: The engineering mechanics programs have all been discontinued and there are no
   more students enrolled. All engineering mechanics courses will either be eliminated or
   renamed/renumbered using a curricular designator other than ENG MECH.
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: 08/31/09
(Chair signature)
Recommended by Discipline Specific Curricula Committee ____________________________ Date: 10-6-09
(Chair signature)
Approved by Curricula Committee: ____________________________ Date: __________
(Chair signature)
Approved by Faculty Senate: ____________________________ Date: __________
(Revised 1/31/08)

08/19/09

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
(Choose 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 Engineering
2. **Discipline and Course Number:** Present: Engineering Mechanics 201
   Proposed:
3. **Course Title:** Present: Special Topics
   Proposed:
   **Abbreviated Course Title:**
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description (40 Words or Less)**
   Present:
   Proposed:

5. If course requires field trip check box:

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

7. **Prerequisites:**
   Present:
   Proposed:

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

9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

   **Recommended by Department**
   Signed: [Signature]
   Date: 08/13/09

   **Recommended by Discipline Specific Curricula Committee**
   Signed: [Signature]
   Date: 06/09

   **Approved by Curricula Committee:**
   Signed: [Signature]
   Date: 

   **Approved by Faculty Senate:**
   Signed: [Signature]
   Date: 

08/19/09

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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 Engineering
2. Discipline and Course Numbers: Present: Engineering Mechanics 300 Proposed:
3. Course Title: Present: Special Problems Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

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

Date: 08/18/09
Date: 10/6/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 301 Proposed:
3. Course Title: Present: Special Topics Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no
   more students enrolled. All engineering mechanics courses will either be eliminated or
   renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3) 4) 5) 6)
   Recommended by Department
   (Chair signature)
   Date: 08/13/09
   Recommended by Discipline Specific Curricula Committee
   (Chair signature)
   Date: 10/6/09
   Approved by Curricula Committee:
   (Chair signature)
   Date: 
   Approved by Faculty Senate:
   (Chair signature)
   Date: 

08/19/09

(Revised 1/31/09)
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:** Mechanical and Aerospace Engineering
2. **Discipline and Course Number:** Present: Engineering Mechanics 307  Proposed:
3. **Course Title:** Present: Finite Element Approx I
   Proposed:
   **Abbreviated Course Title:**
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. **Catalog Description (40 Words 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:
   Proposed:
8. **Required for Majors:** □  **Elective for Majors:** □
9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**
11. **List all co-listed courses, Initiated by Dept. Chair, if signature does not appear below.**
   1)  2)  3)  4)  5)  6)
---
**Recommended by Department**
(Chair signature) Date: 09/13/09
---
**Recommended by Discipline Specific Curricula Committee**
(Chair signature) Date: 10-6-09
---
**Approved by Curricula Committee:**
(Chair signature) Date: ________
---
**Approved by Faculty Senate:**
(Chair signature) Date: ________

08/19/09

(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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 310  Proposed:
3. Course Title: Present: Seminar
   Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no
   more students enrolled. All engineering mechanics courses will either be eliminated or
   renamed/renumbered using a curricular designator other than ENG MECH.

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

Recommended by Department ____________________________ (Chair signature) Date: 08/31/09

Recommended by Discipline Specific Curricula Committee ____________________________ (Chair signature) Date: 10/6/09

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

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

08/19/09

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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 Engineering
3. Course Title: Present: Intro to Solid Mechanics Proposed:
   - Abbreviated Course Title: 
   - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   - Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: 

Approved by Faculty Senate:

(Chair signature)

Date: 

(Revised 1/31/08)

08/19/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 329 Proposed:
3. Course Title: Present: Smart Materials and Sensor Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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: 08/31/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee: ____________________________ Date: 10/6/09
(Chair signature)

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

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

08/10/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 334 Proposed:
3. Course Title: Present: Stability of Engr Struct Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:
4. Catalog Description (40 Words 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: Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
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: 08/13/09
   (Chair signature)
Recommended by Discipline Specific Curricula Committee ___________________________ Date: 10/6/09
   (Chair signature)
Approved by Curricula Committee: ___________________________ Date: ___________________________
   (Chair signature)
Approved by Faculty Senate: ___________________________ Date: ___________________________
   (Chair signature)

08/19/09
(Revised 1/31/08)

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 336 Proposed:
3. Course Title: Present: Fracture Mechanics Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no
   more students enrolled. All engineering mechanics courses will either be eliminated or
   renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)

Recommended by Department ____________________________ Date: 08/19/09
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 08/19/09
(Chair signature)

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

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

08/19/09

(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 Engineering
2. **Discipline and Course Number:** Present: Engineering Mechanics 337 Proposed:
3. **Course Title:** Present: Fatigue Analysis Proposed:
   - **Abbreviated Course Title:**
     (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description (40 Words 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:
   Proposed:
8. **Required for Majors:** □
   **Elective for Majors:** □
9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

**Recommended by Department**

(Chair signature)

Date: 08/31/09

**Recommended by Discipline Specific Curricula Committee**

(Chair signature)

Date: 10-6-09

**Approved by Curricula Committee:**

(Chair signature)

Date:

**Approved by Faculty Senate:**

(Chair signature)

Date:

(Revised 1/31/09)

08/19/09
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: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 361 Proposed:
3. Course Title: Present: Vibration I Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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: Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, Initiated by Dept. Chair, if signature does not appear below.
   1)  2)  3)
   4)  5)  6)

Recommended by Department: [Signature]
Date: 09/31/09

Recommended by Discipline Specific Curricula Committee: [Signature]
Date: 10-6-09

Approved by Curricula Committee: [Signature]
Date: 

Approved by Faculty Senate: [Signature]
Date: 

09/19/09

(Revised 1/31/08)
Effective Year: 2010  
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: Mechanical and Aerospace Engineering  
2. Discipline and Course Number: Present: Engineering Mechanics 381  Proposed:  
3. Course Title: Present: Intro Comp Mtrs/Struc  Proposed:  
   Abbreviated Course Title: 
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)  
4. Catalog Description (40 Words 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:  
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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: 08/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee ____________________________ Date: 10-6-09  
(Chair signature)

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

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

08/19/09  

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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 Engineering
2. **Discipline and Course Number:**
   - **Present:** Engineering Mechanics 400
   - **Proposed:**
3. **Course Title:**
   - **Present:** Special Problems
   - **Proposed:**
   - **Abbreviated Course Title:**
     (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description** (40 Words 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:**
   - **Proposed:**
8. **Required for Majors:** □
   **Elective for Majors:** □
9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

   **Recommended by Department**
   
   **Recommended by Discipline Specific Curricula Committee**
   
   **Approved by Curricula Committee:**
   
   **Approved by Faculty Senate:**

   **Date:** 08/31/09
   **Date:** 10/6/09
   **Date:**
   **Date:**

   **(Chair signature)**
   **(Chair signature)**
   **(Chair signature)**
   **(Chair signature)**

   **(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 Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 401 Proposed:

3. Course Title: Present: Special Topics Proposed:

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

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

   Recommended by Department ___________________________ Date: 08/31/09
   (Chair signature)

   Recommended by Discipline Specific Curricula Committee ___________________________ Date: 10-6-09
   (Chair signature)

   Approved by Curricula Committee: ___________________________ Date: __________
   (Chair signature)

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

08/19/09

(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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 406 Proposed:
3. Course Title: Present: Finite Element Approx 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:

   Proposed:

5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present:

   Proposed:

8. Required for Majors: □ Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
1) 2) 3)
4) 5) 6)
   Recommended by Department: [Signature] Date: 08/31/09
   Recommended by Discipline Specific Curricula Committee: [Signature] Date: 10-6-09
   Approved by Curricula Committee: [Chair signature] Date: 
   Approved by Faculty Senate: [Chair signature] Date: 

08/19/09

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

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

**Course Information**
1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 410 Proposed:
3. Course Title: Present: Seminar Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present:
   Proposed:
4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1) 2) 3) 4) 5) 6)
   Recommended by Department ___________________________ Date: 08/13/09
   (Chair signature)
   Recommended by Discipline Specific Curricula Committee ___________________________ Date: 10/6/09
   (Chair signature)
   Approved by Curricula Committee: ___________________________ Date: __________
   (Chair signature)
   Approved by Faculty Senate: ___________________________ Date: __________
   (Chair signature)

08/19/09

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Effective Year: 2010
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: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 431 Proposed:
3. Course Title: Present: Theory of Plates Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:

4. Catalog Description (40 Words 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:
   Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

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

Recommended by Department ________________________________
(Chair signature) Date: 08/31/09

Recommended by Discipline Specific Curricula Committee ________________________________
(Chair signature) Date: 10/09

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

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

08/19/09

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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 Engineering
2. **Discipline and Course Number:** Present: Engineering Mechanics 432 Proposed:
3. **Course Title:** Present: Theory of Shells Proposed:
   - **Abbreviated Course Title:**
     - (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description (40 Words 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:
   - Proposed:

8. **Required for Majors:** □ **Elective for Majors:** □
9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. **Semesters previously offered as an experimental course (101, 201, 301, 401):**
    1) 2) 3)
    4) 5) 6)

Recommended by Department: [Signature]
Date: 08/31/09

Recommended by Discipline Specific Curricula Committee: [Signature]
Date: 10-6-09

Approved by Curricula Committee: [Signature]
Date: 

Approved by Faculty Senate: [Signature]
Date: 

(Revised 1/31/08)

08/19/09
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 Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: 
   - Present: Engineering Mechanics 436
   - Proposed: 
3. Course Title: 
   - Present: Adv Fracture Mechanics
   - Proposed: 
4. Catalog Description (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   - Present: 
   - Proposed: 
5. If course requires field trip check box: □
6. Credit Hours: 
   - Present: 
   - Lecture: 
   - Lab: 
   - Total: 
7. Prerequisites: 
   - Present: 
   - Proposed: 
8. Required for Majors: □
9. Elective for Majors: □
10. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
11. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1) 
   2) 
   3) 
   4) 
   5) 
   6) 

Recommended by Department ____________________________
(Chair signature) Date: 08-13-09

Recommended by Discipline Specific Curricula Committee ____________________________
(Chair signature) Date: 10-6-09

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

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

(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 Relation □  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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 462  Proposed:
3. Course Title: Present: Theory of Vibrations 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:  
   Proposed:
   
5. If course requires field trip check box: □
6. Credit Hours: Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present:  
   Proposed: 
8. Required for Majors: □  Elective for Majors: □
9. Justification:  The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

08/19/09
08/31/09
10/6/09
(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 Engineering

2. **Discipline and Course Number:** Present: Engineering Mechanics 483  Proposed:

3. **Course Title:** Present: Mech/Composite Materials  Proposed:

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

   Present:

   Proposed:

5. If course requires field trip check box: □

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

7. **Prerequisites:**
   Present:

   Proposed:

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

9. **Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

   Recommended by Department  
   (Chair signature)  Date: 08/19/09

   Recommended by Discipline Specific Curricula Committee  
   (Chair signature)  Date: 10/6/09

   Approved by Curricula Committee:  
   (Chair signature)  Date: 

   Approved by Faculty Senate:  
   (Chair signature)  Date: 

(Revised 1/31/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisite □
- 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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 484 Proposed:
3. Course Title: Present: Analysis Lamin Comp Stru Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:
8. Required for Majors: □
   Elective for Majors: □
9. Justification:
The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1) 2) 3)
   4) 5) 6)
   Recommended by Department ________________________________ Date: 08/31/09
   (Chair signature)
   Recommended by Discipline Specific Curricula Committee __________________
   (Chair signature) Date: 10/6/09
   Approved by Curricula Committee: _____________________________
   (Chair signature) Date: __________________
   Approved by Faculty Senate: _________________________________
   (Chair signature) Date: __________________

08/19/09

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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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 490 Proposed:
3. Course Title: Present: Research Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:
4. Catalog Description (40 Words 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: Proposed:

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

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

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

Recommended by Department

(Chair signature) Date: 08/13/09

Recommended by Discipline Specific Curricula Committee

(Chair signature) Date: 10/6/09

Approved by Curricula Committee:

(Chair signature)

Approved by Faculty Senate:

(Chair signature)

08/19/09

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Choose 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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 493 Proposed:
3. Course Title: Present: Oral Examination Proposed:
   Abbreviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.)
   Present: Proposed:

5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:
7. Prerequisites:
   Present: Proposed:
8. Required for Majors: □
   Elective for Majors: □
9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
    1) 2) 3) 4) 5) 6)
    Recommended by Department ___________________________ Date: 08/31/09
    (Chair signature)
    Recommended by Discipline Specific Curricula Committee ___
    (Chair signature)
    Date: 10/6/09
    Approved by Curricula Committee: ___________________________ Date: ________
    (Chair signature)
    Approved by Faculty Senate: ___________________________ Date: ________
    (Chair signature)

(Revised 1/31/08)
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes
(Choose 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 Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 495 Proposed:
3. Course Title: Present: Continuous Registration Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words 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:
   Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐
9. Justification:
The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):
   1) 2) 3)
   4) 5) 6)
Recommended by Department  
(Chair signature)  Date: 08/13/09
Recommended by Discipline Specific Curricula Committee  
(Chair signature)  Date: 06/09
Approved by Curricula Committee:  
(Chair signature)  Date: 
Approved by Faculty Senate:  
(Chair signature)  Date: 

08/19/09
**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

### Course Changes

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

### Course Information

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

1. **Department:** Arts, Languages and Philosophy
2. **Discipline and Course Number:** Present: Music 171  
   Proposed:
3. **Course Title:**  
   Present: Intro Electronic Music  
   Proposed:
4. **Abbreviated Course Title:**  
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)  
   Present:
   Proposed:

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

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

7. **Prerequisites:**
   - **Present:**
   - **Proposed:**
   - **Proposed:**

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

9. **Justification:** This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

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: 9/17/09

   **Recommended by Discipline Specific Curricula Committee**  
   (Chair signature)
   Date: 9/24/09

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

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

Discipline and Course Number: Bio 401

Course Title: Advanced Toxicology

Abbreviated Title (24 spaces or less): Adv Toxicology

Instructor(s): Yue-wern Huang

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

Prerequisites: Graduate standing and Bio 211 and Bio 231

Semester(s) previously taught: SP 2008

Brief Course Description: (40 words or less)
A study of natural and man-made toxicants, various possible routes of exposure, absorption, distribution, biotransformation, specific target sites, and mechanisms involved in elicitation of toxic effects, as well as detoxification and excretion. Independent research projects and primary literature readings are required.

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

1) 2) 3)

4) 5) 6)

Department Chair: [Signature] Date: 10/12/09

Discipline Specific Curricula Committee: [Signature] Date: 10/14/09

Curricula Committee: [Signature] Date: 

(Revised 1/31/2008)
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 Sciences and Engineering

Discipline and Course Number: GE 201

Course Title: Geology and Engineering of Ancient and Modern Peru

Abbreviated Title (24 spaces or less): Geo Engineering of Peru

Instructor(s): GE faculty

Credit Hours: Lecture: 1  Lab:  Total:  1

Prerequisites:

Semester(s) previously taught:

Brief Course Description: (40 words or less)
A study of the geological engineering of the Cuzco-Machu Picchu corridor, including the inter-relations of geology, climate, archaeology, and history. A technical report and a week-long field trip to Peru during Spring Break are required.

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: 9/1/09

Discipline Specific Curricula Committee:  
(Chair signature)  
Date: 9/1/09

Curricula Committee:  
(Chair Signature)  
Date:  

(Revised 1/31/2008)
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: GSE

Discipline and Course Number: GE 401

Course Title: Surface Waves & Ground Penetrating Radar

Abbreviated Title (24 spaces or less): MASW and GPR

Instructor(s): Anderson

Credit Hours: Lecture: 2 Lab: 1 Total:

Prerequisites: GE 50 or CE 215 or equivalent, and graduate standing

Semester(s) previously taught: taught as 301

Brief Course Description: (40 words or less)
Basic theory and the acquisition, processing and interpretation of surface waves (MASW and ReMi) and ground penetrating radar (GPR) data are covered. Emphasis is placed on geotechnical and structural applications of these non-invasive imaging technologies. Numerous case studies are presented in order to illustrate the utility of these geophysical tools.

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

4) 5) 6)

Department Chair: [Signature]

Discipline Specific Curricula Committee: [Signature]

Curricula Committee: [Signature]

Date: 9/1/09

(Revised 1/31/2008)
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: Materials Science & Engineering
Discipline and Course Number: Cer 201
Course Title: Applied Glass Forming
Abbreviated Title (24 spaces or less): Applied Glass Forming
Instructor(s): Mary Reidmeyer
Credit Hours: Lecture: 1.0 Lab: 1.0 Total: 2.0
Prerequisites: Cer 104 or Met 125; freshmen, sophomore, or junior only or by instructor permission.

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
Examines the properties and behavior of molten glass along with basic forming techniques, including off-hand shaping, molding and casting.

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: Wayne Haas (Chair Signature) Date: 9/1/09
Discipline Specific Curricula Committee: (Chair signature) Date: 9/2/09
Curricula Committee: (Chair Signature) Date: __________

09/02/09

(Revised 1/31/2008)
Cer 201
Applied Glass Forming
SP2010

Class Time and Place:
Arranged
G3 Fulton Hall

Instructor:
Mary R. Reidmeyer
Associate Teaching Professor
Department of Materials Science and Engineering
Office: 143 McNutt Hall
Ph. 573.341.7519
Email: marvm@mst.edu

Office Hours and Appointments:
- I welcome appointments and you may make an appointment by email.

Course Description:
Examines the properties and behavior of molten glass along with basic forming techniques, including off-hand shaping, molding and casting.

Educational Objective:
At the conclusion of this course, the student will possess a basic knowledge of glass behavior at elevated temperatures.

It is necessary that you purchase this text and DVD set. It covers both safety and fundamentals of glassblowing.

Additional Texts: You may also find the following texts helpful:


Course Prerequisites: Cer 104 or Met 125; freshmen, sophomore, or junior level only (or by instructor permission).
Student Success and Organization:
Reading the assigned chapters and viewing the DVD chapters before class are essential. It is much easier to learn in the lab if you know the terminology and have developed a sense for the technique we are going to learn that session. Short quizzes will be used to encourage your preparation for class.

Attendance Policy:
Please review the S&T attendance and drop policy under Student Academic Regulations at http://registrar.mst.edu/documents/academic_regulations2007-2008.pdf. Because this is a hands-on, in-class exercise class, your participation is mandatory.

Shop Etiquette and Safety:
Everyone has to share shop facilities and equipment. Therefore it is important to return items to their proper location, clean up any broken glass, report damaged or broken equipment, properly dispose of beverage containers, and in general leave the shop in a condition that the next users can come in and operate in a clean organized facility. Failure to exhibit acceptable etiquette will result in a loss of possible credit.

Always keep safety at the forefront by wearing your safety glasses, Kevlar protection where appropriate, natural fiber clothing (avoid synthetics as they can melt to your skin) and closed toe shoes.

Grading Policy:
Grading system:
- A: 90 – 100
- B: 80 – 89
- C: 70 – 79
- D: 60 – 69
- F: < 60
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 Sciences and Engineering

Discipline and Course Number: GE 401

Course Title: Inca Civilization Geotechnical Engineering Practices

Abbreviated Title (24 spaces or less): Inca Geo Eng Practices

Instructor(s): Anderson, Luna and Gertsch

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: GE 50 or CE 215 or equivalent, and graduate standing

Semester(s) previously taught:

Brief Course Description: (40 words or less)
An in-depth study of geotechnical engineering practices within the Cuzco-Machu Picchu corridor, with emphasis on the inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction practices, irrigation, culture and history. A week-long field trip to Peru during Spring Break is required.

List all co-listed courses: Include Initials of Dept. Chair, if signature is not already included below.
1) CV ENG 401 2) 3) 4) 5) 6)

Department Chair: Robert Date: 9/1/09

Discipline Specific Curricula Committee: Date: 10/6/09

Curricula Committee: (Chair Signature) Date:

(Revised 1/31/2008)
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: Electrical and Computer Engineering

Discipline and Course Number: EE 301

Course Title: Electric-Drive Vehicles

Abbreviated Title (24 spaces or less): Electric-Drive Vehicles

Instructor(s): Ferdowsi

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

Prerequisites: Senior Standing in Science or Engineering

Semester(s) previously taught: none

Brief Course Description: (40 words or less)
This course covers introductory topics related to the understanding and analysis of electric, hybrid, and plug-in hybrid power trains. In specific, classification of hybrid drivetrains, driving cycles, energy storage systems, mechanical coupling devices, automotive applications of fuel cells, and introduction to power converters will be covered.

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

1) 2) 3)

4) 5) 6)

Department Chair: [Signature] Date: 2/15/09

Discipline Specific Curricula Committee: [Signature] Date: 10/6/09

Curricula Committee: [Signature] Date: 

09/21/09 (Revised 1/31/2008)
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: Mathematics and Statistics
Discipline and Course Number: STAT 401
Course Title: Survival Analysis
Abbreviated Title (24 spaces or less): Survival Analysis
Instructor(s): Akim Adekpédjou
Credit Hours:                      Lecture: 3   Lab: Total: 3
Prerequisites: Stat 343

Semester(s) previously taught: SP08

Brief Course Description: (40 words or less)
Students will be introduced to methods for analyzing survival time data. Topics include survival time models, survival distributions, mathematical and graphical evaluations of goodness of fit, comparison of treatment groups, proportional hazards models, censoring mechanisms, recurrent events, actuarial science 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:             (Chair Signature)
Discipline Specific Curricula Committee:  (Chair signature)
Curricula Committee:           (Chair Signature)

Date: 9/23/09
Date: 10/14/09

(Revised 1/31/2008)
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: Biological Sciences
Discipline and Course Number: BIOSCI301
Course Title: Cancer Cell Biology
Abbreviated Title (24 spaces or less): Cancer Cell Biology
Instructor(s): Katie Shannon
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: Cell Biology (BIOSCI211)

Semester(s) previously taught: FS08

Brief Course Description: (40 words or less)
Advanced cell biology course examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells.

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

Department Chair: [Signature] Date: 9/28/09
Discipline Specific Curricula Committee: [Signature] Date: 10/4/2009
Curricula Committee: [Signature] Date: 

(Revised 1/31/2008)
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: Biological Sciences

Discipline and Course Number: BIOSCI401

Course Title: Advanced Cancer Cell Biology

Abbreviated Title (24 spaces or less): Cancer Cell Biology

Instructor(s): Katie Shannon

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

Prerequisites: Cell Biology (BIOSCI211)

Semester(s) previously taught: FS08

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

Advanced cell biology course examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells. In addition to lecture, will include a weekly section to examine primary cancer literature.

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

1)  2)  3)

4)  5)  6)

Department Chair: [Signature] Date: 9/28/09

Discipline Specific Curricula Committee: [Signature] Date: 10/14/2009

Curricula Committee: [Signature] Date: ______

09/28/09

(Revised 1/31/2008)
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: Biological Sciences
Discipline and Course Number: BIOSCI101
Course Title: Genetics: Decoding your genes
Abbreviated Title (24 spaces or less): Genetic Issues
Instructor(s): Katie Shannon
Credit Hours: Lecture: 3 Lab: 0 Total: 3
Prerequisites: none

Semester(s) previously taught: FS06 (taught as BIOSCI201)

Brief Course Description: (40 words or less)
We will explore the questions: What are genes? How do our genes affect our health? How are genes inherited? What are the societal implications of genetic knowledge? What is the Human Genome Project and what can we learn from it? (Does not fulfill requirement for Biology majors)

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: 9/5/09
Discipline Specific Curricula Committee: ____________________________ (Chair signature) Date: 10/2/09
Curricula Committee: ________________________________ (Chair Signature) Date: ____________

09/28/09 (Revised 1/31/2008)