Agenda
Campus Curricula Committee Meeting
October 7, 2008 Meeting
3:00 p.m. Room 117 Fulton Hall

Approval of September 2, 2008 minutes.

Review of submitted DC forms:

DC 0301, ALP, Theatre, effective Fall 2009. A proposal to create a new minor in Theatre.

Review of submitted CC forms:
CC 7473, IDE 214, System Modeling/Prototyping, effective Fall 2009.

CC 7474, IDE 215, Jr. Design Project, effective Spring 2009.


CC 7476, Mining Engineering 313, Stage Pyrotechnics and Special Effects, effective Fall 2009.


CC 7478, IST 286, Web and New Media Development and Design, effective Spring 2009

CC 7479, ERP 246, Introduction to Enterprise Resource Planning, effective Spring 2009.

Review of submitted EC forms:
EC 2097, Computer Engineering 301, Electrical Engineering 301, Systems Engineering 301, Evolvable Hardware, effective Spring 2009.

EC 2098, Electrical Engineering 301, Computational Intelligence Methods in electric Power (CIMEP), effective Spring 2009.
EC 2099, Electrical Engineering 401, Bioelectrodes and Biosensors, effective Spring 2009.

EC 2100, Electrical Engineering 401, Signal Integrity, High Speed Digital & RF Design Laboratory, effective Spring 2009

EC 2101, Electrical Engineering 401, Advanced Topics in Antenna Analysis & Design, effective Spring 2009.

EC 2103, Mining Engineering 301, Aggregate Materials Sizing and Characterization, effective Fall 2009.


EC 2106, Finance 301, Quantitative Finance Methods, effective Spring 2009.

EC 2108, English 301, American Gothic, effective Spring 2009.

EC 2109, IDE 401, Alternative Design Methods, effective Spring 2009

EC 2110, Technical Communication 301, Help Authoring, effective Spring 2009.

EC 2111, Theatre 201, Acting II, effective Spring 2009.

EC 2112, Theatre 101, Acting I, effective Fall 2009.


EC 2114, Computer Science 401, Personal Privacy and Data Security in Distributed Computing, effective Fall 2009.

EC 2115, Computer Science 401, Software Evolution, effective Spring 2009.

**Tabled Items:**

CC 5946 – CC 5959 tabled pending approval of the new BS degree in BioEngineering by UM and CBHE.

CC 7452, Finance 437, Financial Mathematics II, effective Fall 2008. **Tabled**
EC 2058, IST 401, Math 401, Object-Oriented Financial Software, approved effective Spring 2009. Tabled

EC 2086, Mining Engineering 301, Mineral Processing II, effective Fall 2009. Tabled

EC 2087, Mining Engineering 301, Mineral processing II, effective Fall 2009. Tabled
Degree Change Form (DC)

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

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

Department: Mining and Nuclear Engineering

Briefly describe action requested (Attach documentation as appropriate):
See attached page

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

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

Approved by Curricula Committee:  
(Chair signature)  Date:

Approved by Faculty Senate:  
(Chair signature)  Date:

08/14/08  (Revised 1/31/2008)
Minor in Mineral Process Engineering

The Minor in Mineral Process Engineering provides an in-depth study of the fundamental theories and applications of mineral and coal processing and aggregate materials sizing and classification. This area has become very important given the increased global demand for energy and minerals. This minor designation is also part of the academic cooperation agreement between the Missouri University of Science and Technology (Missouri S&T) and the University of Botswana (UB). Under this agreement, some UB students will obtain the Minor in Mineral Process Engineering as part of their program of study at Missouri S&T. Any student who receives a Bachelor of Science degree in an accredited engineering program from Missouri S&T may also receive the Minor in Mineral Process Engineering by completing 15 credit hours in this specialty. Non-engineering students who have a strong background in mathematical and physical sciences may also qualify for this minor designation with the approval of the Department, and based on an individually designed program study. Students need to determine pre-requisite requirements for the designated courses. The B.S. degree granting program shall determine whether or not courses taken for the Minor in Mineral Process Engineering may also be used to fulfill the requirements of the B.S. degree from that program.

The following courses are required for the Minor in Mineral Process Engineering:

- Mi Eng 241 Principles of Mineral Processing
- Mi Eng 344 Coal Preparation
- Mi Eng 301 Aggregate Materials Sizing and Classification
- Mi Eng 301 Mineral Processing I (Flotation and Hydrometallurgy)
- Mi Eng 301 Mineral Processing II (Mechanics and Design)
Degree Change Form (DC)

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

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

Department: Arts, Languages and Philosophy

Briefly describe action requested (Attach documentation as appropriate):
Reasons for adding a minor in theatre are three-fold:

Significant interest by more than ten current students has been expressed

Our current faculty is capable and willing to teach the minor courses

A student from any engineering/science field who is versed in how to express himself/herself well is infinitely more desirable as a new hire, and has more opportunity to start out in a management position.

Recommended by Department: [Signature] (Chair signature) Date: 9/3/08

Recommended by Discipline Specific Curricula Committee: [Signature] Date: ______

Approved by Curricula Committee: [Signature] Date: ______

Approved by Faculty Senate: [Signature] Date: ______

09/03/08 (Revised 1/31/2008)
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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: Interdisciplinary Engineering

2. Discipline and Course Number:  Present: IDE 214  Proposed:

3. Course Title:  Present: System Modeling/Prototyping  Proposed: System Modeling

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

4. Catalog Description (40 Words or Less)
   Present: This course examines the modeling, simulation, and prototyping of dynamic systems. The use of bond graphs to represent the essential structure of system models leads to state space equations for performance analysis and design variable selection.

   Proposed: This course examines the modeling and simulation of dynamic systems. The use of bond graphs to represent the essential structure of system models leads to state space equations for performance analysis and design variable selection.

5. If course requires field trip check box:  □

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

7. Prerequisites:
   Present: IDE 105, Math 229, IDE 150

   Proposed: IDE 105, Math 204, and IDE 150 or ME 160

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

9. Justification: IDE 214 focuses on modeling systems, not prototype development, so the name and catalog changes reflect this. Also, Math 229 is no longer offered and thus Math 204 is required of IDE students, this is reflected in the prerequisite change. Furthermore, several IDE students elect to take ME 160 rather than IDE 150.

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

   Recommended by Department (Chair signature)  Date: 08/28/08

   Recommended by Discipline Specific Curricula Committee (Chair signature)

   Approved by Curricula Committee:  (Chair signature)  Date: 

   Approved by Faculty Senate:  (Chair signature)  Date: 

08/21/08

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

This form is for creating or modifying permanent courses.

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

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

Course Information

1. Department: Interdisciplinary Engineering

2. Discipline and Course Number: Present: IDE 215  Proposed:

3. Course Title: Present: Jr. Design Project
   Proposed: System Prototyping

   Abbreviated Course Title: Sys Prototyping

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

4. Catalog Description (40 Words or Less)

   Present: Students use extensive mathematical and physical modeling to characterize a team-based interdisciplinary design project. A prototype is built and tested to determine the effectiveness of the various modeling techniques used.

   Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

   Present: Lecture: 2  Lab: 1  Total: 3
   Proposed: Lecture:  2
   Lab:  1
   Total: 3

7. Prerequisites:

   Present: IDE 214 System Modeling and Prototyping

   Proposed:

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

9. Justification: IDE 214 is also submitting a Name Change Form to more accurately reflect the topics covered. The proposed IDE 214 new name will be System Modeling

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: 08/21/08
   (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)
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:** Mathematics and Statistics

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

3. **Course Title:** Present: Introduction to Abstract Harmonic Analysis I
   Proposed: Harmonic Analysis I

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

4. **Catalog Description** (40 Words or Less)
   Present: Topological groups, linear spaces, group representation theory, permutation groups, rotation groups, Lorentz groups, Haar integral, Banach algebras, C*-algebras, examples in physics.

   Proposed: Fourier series, norm and pointwise convergence of Fourier series, the conjugate and maximal functions, analytic functions in the unit disk and Hardy spaces, interpolation of linear operators and the Hausdorff-Young-Riesz Theorem, Sidon sets.

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

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

7. **Prerequisites:**
   Present: Math 305 and Math 385
   Proposed: Math 315 and Math 351

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

9. **Justification:** Math 461 and 462 have not been offered since the 1980’s. We propose a revision of this two-semester sequence which will be more appealing to users of this mathematics in the fields of science and engineering without compromising the training of mathematics graduate students in a field central to modern analysis.

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:**

[Signatures and dates]

Date: 8-21-08

(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:** Mining and Nuclear Engineering
2. **Discipline and Course Number:** Present: Min 301  
   Proposed: Min 316
3. **Course Title:** Present: Stage Pyrotechnics and Special Effects  
   Proposed: Stage Pyro & Spec Effect
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. **Catalog Description** (40 Words or Less)
   Present:
   Proposed: Use of energetic materials in close proximity to audiences. Provide participants with training preparing for Missouri Pyrotechnics Display Operators License. Covers: close proximity indoor and outdoor pyrotechnics and special effects. Working with stage crews and talent, safety and permitting.
5. If course requires field trip check box: ☐
6. **Credit Hours:**
   - Present:  
   - Proposed: Lecture: 1  
   - Lab: 2  
   - Total: 3
7. **Prerequisites:**
   - Present:  
   - Proposed: Chem 1. US Citizen or permanent resident (to fulfill the requirements of the SAFE EXPLOSIVES ACT 2003). Resident enrollment at MS&T (e.g. not distance or internet)
8. **Required for Majors:** ☐
   **Elective for Majors:** ☒
9. **Justification:** This class is part of the certificate program in explosives engineering.

10. **Semesters previously offered as an experimental course (101, 201, 301, 401):** FS2007 & FS2008
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
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   6)  
   Date: 08/22/08
   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)

(Redacted 1/31/08)

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: Mathematics and Statistics
2. Discipline and Course Number: Present: Math 462
   Proposed:
3. Course Title: Present: Introduction to Abstract Harmonic Analysis II
   Proposed: Harmonic Analysis II
   Abbreviated Course Title: Harmonic Analysis II
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: Continuation of Math 461.
   Proposed: Fourier integrals, almost-periodic functions on the real line, Banach algebras, Wiener's
   Tauberian Theorem and the prime number theorem, the Paley-Wiener Theorems, band-
   limited functions and Shannon's Theorem, the continuous wavelet transform, discrete wavelet
   transforms and frames, orthonormal bases of wavelets and multi-resolution analysis.
5. If course requires field trip check box: □
6. Credit Hours:
   Present: Lecture: 3 Lab: 0 Total: 3
   Proposed:
   Lab:
   Total:
7. Prerequisites:
   Present: Must be preceded by Math 461.
   Proposed:
8. Required for Majors: □
   Elective for Majors: □
9. Justification:
   Math 461 and 462 have not been offered since the 1980's. We propose a revision of
   this two-semester sequence which will be more appealing to users of this mathematics
   in the fields of science and engineering without compromising the training of
   mathematics graduate students in a field central to modern analysis.
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)  
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   6)
Recommended by Department

Recommended by Discipline Specific Curricula Committee

Approved by Curricula Committee:

Approved by Faculty Senate:

Date: 8/25/08
(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. School/College: Department: Business and Information Tech
2. Discipline and Course Number: Present: IST 286 Proposed:
3. Course Title: Present: Web and New Media Development and Design
   Proposed: Web and Digital Media Development
   Abbreviated Course Title: Digital Media
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)
   Present: This course covers techniques and tools for design and development of web-based media, including text, graphics, animation, audio, & video.
   Proposed:

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

6. Prerequisites:
   Present: IST 151
   Proposed:

7. Required for Majors: ☒ Elective for Majors: □
8. Justification: Changing the course name to better reflect the course content.

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
   (Chair signature) Date: 8/26/08

Recommended by School/College:
   (Dean signature) Date:

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

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

08/26/08

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Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**

(Check all changes.)

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- 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:**
   - **Department:** Business & Information Tech

2. **Discipline and Course Number:**
   - **Present:** ERP246
   - **Proposed:**

3. **Course Title:**
   - **Present:** Introduction to Enterprise Resource Planning
   - **Proposed:**

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

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

   - **Present:** Fundamentals of enterprise resource planning (ERP) systems concepts, and the importance of integrated information systems in an organization. The focus of this course is on illustrating procurement, production, and sales business processes using ERP software. Use of SAP as an example ERP system.
   - **Proposed:**

5. **Credit Hours:**
   - **Present:** Lecture: 3
     Lab: Total: 3.0
   - **Proposed:**

6. **Prerequisites:**

   - **Present:** IST 141
   - **Proposed:** IST 51

7. **Required for Majors:** [ ]
   - **Elective for Majors:** [ ]

8. **Justification:** IST141 no longer exists.

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

   **Recommended by Department**
   - [Signature] Date: **8/21/08**

   **Recommended by School/College:**
   - [Signature] Date: __________________

   **Recommended by UMR Curricula Committee:**
   - [Signature] Date: __________________ (Action)

   **Recommended by Academic Council:**
   - [Signature] Date: __________________ (Action)

   (Revised 2/14/02)
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

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Department: Electrical & Computer

Discipline and Course Number: CpE 301

Course Title: Evolvable Hardware

Abbreviated Title (24 spaces or less): Evolvable Hardware

Instructor(s): Dr. G. Kumar Venayagamoorthy

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

Prerequisites: CpE 367 or EE 367

Semester(s) previously taught: SP 2007

Brief Course Description: (40 words or less)
This course deals with adaptive evolvable systems operating in a changing environment. Components/building blocks approach for the design of evolvable systems and the mathematical theory of evolvable machines and the idea of virtual reconfigurable circuits for the design of more adaptive, competitive and innovative engineering products will be taught.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) EE 301  2) Sys Eng 301  3)  
4)  5)  6)  

Department Chair:  

(Chair Signature)  Date: 12/22/08

Discipline Specific Curricula Committee:  

(Chair signature)  Date:  

Curricula Committee:  

(Chair Signature)  Date:  

(Revised 1/31/2008)
Experimental Course Form (EC)

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Spring Semester Offerings – August 1

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Department: Electrical & Computer Engineering

Discipline and Course Number: EE 301

Course Title: Computational Intelligence Methods in Electric Power (CIMEP)

Abbreviated Title (24 spaces or less): Comp Intel EIEC Power

Instructor(s): G. Kumar Venayagamoorthy

Credit Hours: Lecture: 3.0 Lab: 0 Total: 3.0

Prerequisites: EE 207 or EE 307, EE 301 (Real Time Power System Simulation) and EE 367

Semester(s) previously taught: None

Brief Course Description: (40 words or less)
Review of Computational Intelligence (CI) Methods; CI methods for identification/modeling, control and optimization in electric power networks; load forecasting; wind energy prediction; Harmonic Estimation & Scheduling of power system maintenance.

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: 1 Aug 08

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

06/26/08 (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 and college dean’s notation, by the appropriate deadline. Filing deadlines for inclusion in the pre-registration Schedule of Classes are as follows:

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

Filing deadlines for inclusion in the Revised Schedule of Classes are April 30 and October 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.

School or College:

Department: Electrical & Computer Engr

Discipline and Course Number: EE 401

Course Title: Bioelectrodes and Biosensors

Abbreviated Title (24 spaces or less): Bioelectronics

Instructor(s): Chang-Soo Kim

Credit Hours: Lecture: 1.5 Lab: 1.5 Total: 3.0

Prerequisites: Graduate standing.

Semester(s) previously taught: SP 2008

Brief Course Description: (40 words or less)
Review of the rapidly emerging bioelectronics area. Device structure and operational principles of various bioelectrodes, biosensors, and biofuel cells. The topics include: (1) review of applied electroanalytical methods, (2) review of applied optical methods, (3) review of recent developments in bioelectronic systems, (4) hands-on lab sessions related with these topics.

List all co-listed courses: Include initials of Dept. Chair(s) and Dean(s) if signatures are not already included below.
1. 4.
2. 5.
3. 6.

Department Chair:  
Chair Signature  
Date: 10 July 08

College/School Dean:  
Dean Signature  
Date: 

UMR Curricula Committee:  
Chair Signature  
Date: 

06/20/08 (Revised 2/14/2002)
Experimental Course Form (EC)

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

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School or College: Engineering

Department: Electrical and Computer Engr

Discipline and Course Number: EE 401

Course Title: Signal Integrity, High Speed Digital & RF Design Laboratory

Abbreviated Title (24 spaces or less): Digital / RF Laboratory

Instructor(s): Dr. David Pommerenke

Credit Hours: Lecture: Lab: 3 Total: 

Prerequisites: EE 271

Semester(s) previously taught: SP 2007

Brief Course Description: (40 words or less)
High-frequency and high-data rate circuits are impacted by layout and component parasitics that can compromise meeting the design specifications. This is a course designed around laboratory experiments and a semester project that emphasizes practical issues in digital and RF circuit layout and design.

List all co-listed courses: Include initials of Dept. Chair(s) and Dean(s) if signatures are not already included below.

1.
2.
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5.
6.

Department Chair: [Signature] Date: 10 July 08

College/School Dean: [Signature] Date: 

UMR Curricula Committee: [Signature] Date: 

06/20/08 (Revised 2/14/2002)
Experimental Course Form (EC)

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Spring Semester Offerings – August 1

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Department: Electrical & Computer Engineering

Discipline and Course Number: EE 401

Course Title: Advanced Topics in Antenna Analysis & Design

Abbreviated Title (24 spaces or less): Adv Antenna Analy&Design

Instructor(s): Reza Zoughi

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

Prerequisites: EE 373 or equivalent

Semester(s) previously taught: SP 2006

Brief Course Description: (40 words or less)
Introduction and discussion of advanced antenna design issues including aperture and microstrip antennas including simulation, design, and testing.

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: 05/10/04

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

06/20/08 (Revised 1/31/2008)

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Experimental Course Form (EC)

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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: Mining and Nuclear Engineering

Discipline and Course Number: Mi Eng 301

Course Title: Aggregate Materials Sizing and Characterization

Abbreviated Title (24 spaces or less): Aggregate Materials

Instructor(s): Greg Galecki

Credit Hours: Lecture: 2.0 Lab: 1.0 Total: 3.0

Prerequisites: Mi Eng 241

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Geological formation of aggregates; aggregate properties and their measurements; aggregate for specific end-use applications; specifications and standards; processing (crushing, screening, classification, and washing); plant design and flow sheet analysis; quality control and assurance.

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: 08/12/08

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

08/12/08 (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 and college dean’s notation, by the appropriate deadline. Filing deadlines for inclusion in the pre-registration Schedule of Classes are as follows:

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Winter Semester Offerings – August 1

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School or College: Arts and Sciences
Department: Computer Science
Discipline and Course Number: Cmp Sc 401
Course Title: Advanced Topics in Network Security
Abbreviated Title (24 spaces or less): Advanced Ntwk. Security
Instructor(s): S. Chellappan
Credit Hours: Lecture: 3 Lab: Total: 3
Prerequisites: Cmp Sc 285 or equivalent

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course covers recent advances in security of Internet, Wireless Networks, and Sensor Networks. The topics coverage will focus on newly emerging security services, threats, attacks and countermeasures to each of these networks. Students will be expected to pick a relevant topic, and complete a research project.

List all co-listed courses: Include initials of Dept. Chair(s) and Dean(s) if signatures are not already included below.
1.
2.
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Department Chair: ____________________________ Chair Signature

College/School Dean: ____________________________ Dean Signature

UMR Curricula Committee: ____________________________ Chair Signature

Date: ________________

08/14/08

(Revised 2/14/2002)
Experimental Course Form (EC)

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Spring Semester Offerings – August 1

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Department: Mining Engineering

Discipline and Course Number: Min 401

Course Title: Research Methods

Abbreviated Title (24 spaces or less): Res. Meth.

Instructor(s): Samuel Frimpong

Credit Hours: Lecture: 3.0 Lab: Total:

Prerequisites: None

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course introduces the foundation, dimensions, and methods for designing and investigating research problems. The course will focus on fundamental and applied research constitutions, research design methods, critical literature review, experimental design methods, dissertation composition and write-up, originality and contributions, intellectual property.

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: 08/22/08

Discipline Specific Curricula Committee: [Signature] Date:

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 and college dean’s notation, by the appropriate deadline. Filing deadlines for inclusion in the pre-registration Schedule of Classes are as follows:

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School or College:

Department: Business Information Tech

Discipline and Course Number: FIN 301

Course Title: Quantitative Finance Methods

Abbreviated Title (24 spaces or less): Quant Finance Methods

Instructor(s): Dr. Michael G. Hilgers

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

Prerequisites: (Programming Competency and Introductory Statistics) or Instructor’s Consent

Semester(s) previously taught: none

Brief Course Description: (40 words or less)
The focus is development of basic quantitative finance models using spreadsheet technology. Particular topics include portfolio modeling and optimization, asset pricing, performance measures, options, Black-Scholes formula, implied volatility, interest rate models, bonds, and binomial trees.

List all co-listed courses: Include initials of Dept. Chair(s) and Dean(s) if signatures are not already included below.
1. 
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Department Chair: ____________________________ Date: 08/26/08

College/School Dean: ____________________________ Date: ______________

UMR Curricula Committee: ____________________________ Date: ______________

(Revised 2/14/2002)
Experimental Course Form (EC)

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Department: English

Discipline and Course Number: Amer Lit 301

Course Title: American Gothic

Abbreviated Title (24 spaces or less):

Instructor(s): morgan

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: English 20 and a previous literature course

Semester(s) previously taught: 2

Brief Course Description: (40 words or less)
This course follows the development of gothic/horror literature in the United States from its earliest expression in Phillip Frenau’s 18th century works through Brokden Brown’s late 18c. Gothic novels, to Hawthorne, Melville, and Poe’s dark fiction, and finally to modern and contemporary works by Faulkner, O’Connor, Stephen King and others.

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

Department Chair: [Signature] (Chair Signature) Date: 8/25/08

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

Curricula Committee: [Signature] (Chair Signature) Date: ________

08/25/08 (Revised 1/31/2008)
Experimental Course Form (EC)

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Department: IDE

Discipline and Course Number: 401

Course Title: Alternative Design Methods

Abbreviated Title (24 spaces or less): Alternative Design

Instructor(s): Stone

Credit Hours: 3
Lab: 0
Total: 3

Prerequisites: Graduate standing

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course examines design methods outside of the Pahl and Beitz inspired realm. Alternative design approaches such as axiomatic design, TRIZ, affordances and quality methods are explored and evaluated on their applicability to varying types of design problems.

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

1)
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4)
5)
6)

Department Chair: ______________________ (Chair Signature) Date: 08/28/08

Discipline Specific Curricula Committee: ______________________ Date: __________

Curricula Committee: ______________________ (Chair Signature) Date: __________

08/27/08 (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:

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Spring Semester Offerings – August 1

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Department: English and Technical Communication

Discipline and Course Number: TCH COM 301

Course Title: Help Authoring

Abbreviated Title (24 spaces or less): Help Authoring

Instructor(s): Dr. Ed Malone

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

Prerequisites: ENGL 65 or TCH COM 65

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
Students will acquire the technological and rhetorical skills necessary for creating effective online help systems, including context-sensitive help for computer 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) Date: 8-29-08

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

Curricula Committee: ___________________________ (Chair Signature) Date:

08/29/08

(Revised 1/31/2008)
Experimental Course Form (EC)

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Department: ALP

Discipline and Course Number: 201

Course Title: Acting II

Abbreviated Title (24 spaces or less): Acting II

Instructor(s): Jeannie Stangley

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: Acting I

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Continuation of Acting I, covering acting styles, more complicated, nuanced roles, and more detailed character analysis and performance—Special emphasis on Shakesperian performance.

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: 9/3/08

Discipline Specific Curricula Committee: [Signature] Date: ___

Curricula Committee: [Signature] Date: ___

09/03/08 (Revised 1/31/2008)
Experimental Course Form (EC)

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Spring Semester Offerings – August 1

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Department: ALP

Discipline and Course Number: Theatre 101

Course Title: Acting 1

Abbreviated Title (24 spaces or less): Acting 1

Instructor(s): Jeannie Stanley

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites:

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Covers basic techniques for comprehension of theory and practice of acting. Explores inner/outer techniques to create a role. Follows working steps to create performance of a fully realized characterization. Designed as an introductory course.

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: 11/08

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

(Revised 1/31/2008)
Experimental Course Form (EC)

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Spring Semester Offerings – August 1

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Department: Computer Science

Discipline and Course Number: C. Sc. 401

Course Title: Security for Wireless and Sensor Networks

Abbreviated Title (24 spaces or less): Security for Wireless

Instructor(s): S. Chellappan

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: C. Sc. 385 or equivalent

Semester(s) previously taught: SP 08

Brief Course Description: (40 words or less)
This course covers recent advances in security of Internet, Wireless Networks, and Sensor Networks. The topics coverage will focus on newly emerging security services, threats, attacks and countermeasures to each of these networks. Students will be expected to pick a relevant topic, and complete a research project

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: 5/8/08

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

09/05/08 (Revised 1/31/2008)
Experimental Course Form (EC)

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

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**Department:** Computer Science

**Discipline and Course Number:** Cmp Sc 401

**Course Title:** Personal Privacy and Data Security in Distributed Computing

**Abbreviated Title (24 spaces or less):** Privacy & Security in DC

**Instructor(s):** Wei Jiang

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

**Prerequisites:** Cmp Sc 355 or equivalent

**Semester(s) previously taught:**

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

This course first covers basic tools, in statistics and cryptography, commonly used to design privacy-preserving and secure protocols in distributed environment. The course also introduces recent advances in the field of privacy-preserving data analysis, data sanitization and information retrieval. Students are expected to choose a relevant topic, and to complete a course project.

**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: **Sec‘08**

**Discipline Specific Curricula Committee:** [Signature]  Date: __________

**Curricula Committee:** [Signature]  Date: __________

(Revised 1/31/2008)

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Experimental Course Form (EC)

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### Spring Semester Offerings – August 1

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**Department:** Computer Science

**Discipline and Course Number:** CS 401

**Course Title:** Software Evolution

**Abbreviated Title (24 spaces or less):** Software Evolution

**Instructor(s):** Huzefa Kagdi

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

**Prerequisites:** CS206 or equivalent

**Semester(s) previously taught:** None

**Brief Course Description: (40 words or less)**
Provide graduate students an overview of software evolution and the associated research field. Topics of interest include empirical methods, program comprehension, reverse engineering, static & dynamic analyses, and software maintenance. Course conduct will be in the form of a research seminar.

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

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**Department Chair:**  
(Chair Signature)

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

**Curricula Committee:**  
(Chair Signature)

Date:  

(Revised 1/31/2008)