Agenda
Campus Curricula Committee Meeting
August 14, 2008 Meeting
2:00 p.m. Room 117 Fulton Hall

Review of submitted EC forms:

EC 2065, Geological Engineering 301, Fractured Rock Characterization, effective Fall 2008.

EC 2066, Biological Sciences 401, Advanced Cancer Cell Biology, effective Fall 2008.

EC 2067, Mining Engineering 401, Truck Haulage Engineering and Haul Roads Efficiency, effective Fall 2008.


EC 2069, Chemistry 401, Organometallic Chemistry, effective Fall 2008.

EC 2073, Education 301, Professional Learning Communities Part 1, effective Fall 2008.

EC 2074, Environmental Engineering 301, Architectural Engineering 301, Civil Engineering 301, effective Fall 2008.

EC 2075, Computer Science 401, Cryptography, effective Fall 2008.

EC 2080, Mining Engineering 301, Diesel Particulate Matters Emissions Control, effective Fall 2008.

EC 2085, Mining Engineering 401, Life Cycle Assessment of Mining Systems, effective Fall 2008.

EC 2088, Engineering Management 301, Quality Philosophy, effective Fall 2008.
EC 2089, Engineering Management 301, Quality Tools, effective Fall 2008.

EC 2090, Engineering Management 301, Leadership, effective Fall 2008.
Experimental Course Form (EC)

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Department: Geological Science and Engineering

Discipline and Course Number: GE 101

Course Title: Mathematic Concepts for Military Geological Engineers

Abbreviated Title (24 spaces or less): Math Concepts, Mil. GE's

Instructor(s): TBA

Credit Hours: Lecture: 2 Lab: Total: 2

Prerequisites:

Semester(s) previously taught: none

Brief Course Description: (40 words or less)

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) Math 101 4/14/08
2) 3) 4) 5) 6)

Department Chair: 
(Chair Signature) 4-25-08 Date: 7/1/08

Discipline Specific Curricula Committee: 
(Chair signature) Date: 

Curricula Committee: 
(Chair Signature)
Experimental Course Form (EC)

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Department: Geological Science and Engineering

Discipline and Course Number: GE 301 section 6E

Course Title: Fractured Rock Characterization

Abbreviated Title (24 spaces or less): Fractured Rock Character

Instructor(s): Gertsch

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: MI ENG 232 or CV ENG 215 OR GEO 220

Semester(s) previously taught: FS06

Brief Course Description: (40 words or less)
Explores current theoretical approaches to characterizing rock masses containing joints, cracks, faults, fractures, etc. Topics include stresses, rigid block kinematics, rock mass strength and deformability, and fluid flow. Prerequisite to the "Fractured Rock Behavior" 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: ______________________  (Chair Signature)  Date: 4/14/08

Discipline Specific Curricula Committee: _______________  (Chair signature)  Date: _________

Curricula Committee: ________________________  (Chair Signature)  Date: _________

04/10/08  (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:** Arts and Sciences

**Department:** Biological Sciences

**Discipline and Course Number:** BioSci401

**Course Title:** Advanced Cancer Cell Biology

**Abbreviated Title (24 spaces or less):** Advanced Cancer Biology

**Instructor(s):** Dr. Katie Shannon

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

**Prerequisites:** Cell Biology (BIO211)

**Semester(s) previously taught:** 0

**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(s) and Dean(s) if signatures are not already included below.

1.
2.
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**Department Chair:** [Signature]

**College/School Dean:** [Signature]

**UMR Curricula Committee:** [Signature]

Date: 04/14/08

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

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School or College:

Department: Mining and Nuclear Engineering

Discipline and Course Number: Min 401

Course Title: Truck Haulage Engineering and Haul Roads Efficiency

Abbreviated Title (24 spaces or less): Tr. Haulage Engr

Instructor(s): Dr. Samuel Frimpong

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: Consent of Instructor

Semester(s) previously taught:

Brief Course Description: (40 words or less)
This course will provide understanding into haul road design and safety requirements; and (ii) equip students with the ability to select, design, implement and supervise truck haulage in surface mines. It will include haul road design and safety; truck haulage design and safety; truck-road-service points; efficiency, productivity and economics; truck selection; ergonomics and risks.

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: ____________________________ Date: 04/21/08
Chair Signature

College/School Dean: ____________________________ Date: ______________
Dean Signature

UMR Curricula Committee: ____________________________ Date: ______________
Chair Signature

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

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**Department:** Geological Science and Engineering  
**Discipline and Course Number:** GE 201

**Course Title:** Statics and Mechanics of Geologic Materials

**Abbreviated Title (24 spaces or less):** Geo Mtls Statics & Mech

**Instructor(s):** Leslie Gertsch

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

**Prerequisites:**

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

**Brief Course Description: (40 words or less)**
Fundamental statics of rigid bodies and mechanics of deformable bodies for entering graduate students, focusing on behavior of rock and soil in engineering situations. Not for students intending to register as professional engineers.

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

1)  
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**Department Chair:** ___________________________  
(Chair Signature)  
Date: 4/25/08

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

**Curricula Committee:** ___________________________  
(Chair Signature)  
Date: __________

04/16/08

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

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**Department:** Chemistry

**Discipline and Course Number:** Chem 401

**Course Title:** Organometallic Chemistry

**Abbreviated Title (24 spaces or less):** Organometallic Chemistry

**Instructor(s):** Pericles Stavropoulos

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

**Prerequisites:**

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

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

This course will cover the use of transition metal in organic synthesis with particular emphasis placed on issues of selectivity (regioselectivity and stereoselectivity).

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

1)  
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6)  

Department Chair: [Signature]  
Date: 4/25/08

Discipline Specific Curricula Committee: [Signature]  
Date: __________

Curricula Committee: [Signature]  
Date: __________

04/24/08  
(Revised 1/31/2008)
Experimental Course Form (EC)

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School or College: Undergraduate Studies

Department: EDU

Discipline and Course Number: EDU301

Course Title: Professional Learning Communities Part 1

Abbreviated Title (24 spaces or less): PLC I

Instructor(s): Dr. Doris Ridder

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

Prerequisites: graduate standing

Semester(s) previously taught:

Brief Course Description: (40 words or less)
The course will be based upon a study of current research and publications on professional learning communities. It is designed for school teams to begin the journey of developing a mission, vision, setting priorities and SMART goals. It will include the study of effective change processes in organizations and the utilization of leadership teams and collaborative teams to achieve goals.

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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4. 
5. 
6.

Department Chair: [Signature] Date: 4-22-08

College/School Dean: [Signature] Date: 4/29/08

UMR Curricula Committee: [Signature] Date: 

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

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**Department:** Civil, Architectural and Environmental Engineering

**Discipline and Course Number:** EnvE 301

**Course Title:** Indoor Air Pollution

**Abbreviated Title (24 spaces or less):** Indoor Air Pol

**Instructor(s):** Glenn Morrison

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

**Prerequisites:** CE261, ME371 or Grad Status

**Semester(s) previously taught:** WS2005, WS2007

**Brief Course Description: (40 words or less)**
Indoor air pollution sources, physics, chemistry and consequences. Students learn how radon, cigarette smoke, VOCs from furnishings, etc. affect indoor air quality and how standards are set to improve indoor health and comfort. Students apply engineering analyses to building air to specify ventilation rates, choose furnishings and minimize occupant exposure to pollutants.

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

1) ArchE 301  2) CE 301  3)

4)  5)  6)

**Department Chair:** [Signature]

Date: 5/18/08

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

Date: __________

**Curricula Committee:** [Signature]

Date: __________

05/19/08

(Revised 1/31/2008)
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Department: Computer Science

Discipline and Course Number: **CS 401**

Course Title: Cryptography

Abbreviated Title (24 spaces or less): Cryptography

Instructor(s): Wei Jiang

Credit Hours: Lecture: 3  Lab:  Total: 3

Prerequisites: Graduate Standing

Semester(s) previously taught: new course

Brief Course Description: (40 words or less)
Foundations of Cryptography including number theory, Private and Public key schemes, and applications.

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

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

Department Chair: ___________________________  Date: 5/27/08

(Chair Signature)

Discipline Specific Curricula Committee: ___________________________

(Chair signature)  Date: __________

Curricula Committee: ___________________________

(Chair Signature)  Date: __________

05/27/08  (Revised 1/31/2008)
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Department: Mining and Nuclear Engineering

Discipline and Course Number: MIN 301

Course Title: Diesel Particulate Matters Emissions Control

Abbreviated Title (24 spaces or less): DPM Emission Control

Instructor(s): Jerry Tien

Credit Hours: Lecture: 3.0 Lab: Total:

Prerequisites: Min-318 and Mini-324

Semester(s) previously taught:

Brief Course Description: (40 words or less)
Introducory of basic diesel particulate matters (DPM) occurrence in underground mines; health effects and control strategies; DPM regulations for both coal and noncoal operations; cost of DPM control on mining operations.

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

1) 
2) 
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5) (Chair Signature)
6) 

Department Chair: Date: 06/18/08

Discipline Specific Curricula Committee: (Chair signature)

Curricula Committee: Date:

Effective Year: 2008

Effective Term: Summer ☐ Fall ☒ Spring ☐
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Department: Engineering Management

Discipline and Course Number: 301 Emgt

Course Title: Quality Philosophy

Abbreviated Title (24 spaces or less): Quality Philosophy

Instructor(s): Dr. Kenneth M. Ragsdell

Credit Hours: Lecture: 1.0 Lab: 0.0 Total: 1.0

Prerequisites: Senior or graduate standing.

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
The course will cover an overview of the underlying philosophy, principles and concepts related to quality management. (Note: If you take this course, you cannot take EMGT 375.)

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

Department Chair: ______________________ (Chair Signature) Date: 7/4/08

Discipline Specific Curricula Committee: ____________________________ (Chair signature) Date: __________

Curricula Committee: ____________________________ (Chair Signature) Date: __________

(Revised 1/31/2008)
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Department: Engineering Management

Discipline and Course Number: 301

Course Title: Quality Tools

Abbreviated Title (24 spaces or less): Quality Tools

Instructor(s): Dr. Kenneth M. Ragsdell

Credit Hours: Lecture: 1.0 Lab: 0.0 Total: 1.0

Prerequisites: Senior or graduate standing.

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
The course will cover the quality analysis methods and processes for engineers in industry. (Note: If you take this course, you can not take EMGT 375.)

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

Department Chair: [Signature] Date: 7/14/08

Discipline Specific Curricula Committee: [Signature] Date: 

Curricula Committee: [Signature] Date: 

07/14/08

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

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Department: Engineering Management

Discipline and Course Number: 301

Course Title: Leadership

Abbreviated Title (24 spaces or less): Leadership

Instructor(s): Dr. Kenneth M. Ragsdell

Credit Hours: Lecture: 1.0 Lab: 0.0 Total: 1.0

Prerequisites: Senior or graduate standing.

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)
This course is an examination of modern theories of personal and corporate leadership, with particular emphasis on success of organizations in industry, government and education. (Notice: If you take this course, you cannot take EMGT 375.)

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

Department Chair: ________________________________ Date: 7/14/08
(Chair Signature)

Discipline Specific Curricula Committee: ________________________________ Date: __________
(Chair signature)

Curricula Committee: ________________________________ Date: __________
(Chair Signature)

07/14/08 (Revised 1/31/2008)

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