

Minutes

Campus Curricula Committee Meeting

January 8, 2008 Meeting

3:00 p.m. Room 117 Fulton Hall

Approval of December 4, 2007 minutes.

Shannon Fogg, Lance Gentry, Richard Hall, Angie Huffman, Irina Ivliyeva, Keith Nisbett, and Jennifer Thorpe attended the meeting.

Review of submitted DC forms:

DC 0276, Computer Science, approved effective Fall 2008.

A proposal to change the current footnote for the laboratory science elective for the BS in Computer Science.

Review of submitted CC forms:

CC 7299, Electrical Engineering 421, Solid State Electronics. Course deletion approved effective Fall 2008.

CC 7300, Engineering Management 328, Safety Engineering Mgt. II. Course deletion approved effective Spring 2008.

CC 7301, Geology 372, Geological Field Studies. The following change has been approved effective Spring 2008.

Catalog Description – Proposed: Intensive review of the scientific literature corresponding to a selected geographical region of geologic interest; followed by a 7- to 10-day long field trip to be held over spring break or after the end of the semester. Students will be expected to bear a portion of the field trip expenses. Repeatable for credit.

Credit Hours – Present: 1-3 hour lab

Proposed: 3 hour lecture

CC 7302, IDE 242, Competition Team Communication. New course approved effective Fall 2008.

Catalog Description: Communication skills, both technical and promotional, will be covered. Students will practice both communication skills in written, oral and media-based modes. Specific activities will include writing a proposal for funding, developing a promotional media piece and speaking to external groups about a SDELC team. Assessment will be made on each of the deliverables.

Credit Hours: .5 hour lecture .5 hour lab Total: 1

Prerequisites: IDE 224 and IDE 233

CC 7303, Mechanical Engineering 320, Aerospace Engineering 320 , Advanced Mechanics of Materials. New course approved effective Summer 2008.

Course Title: Advanced Mechanics of Materials

Catalog Description: Comprehensive insight into mechanics of materials. Topics to include: theories of failure, torsion of noncircular sections, shear flow and shear center, unsymmetric bending, bending of curved members, beams on elastic foundation and pressurization of thick walled cylinders.

Credit Hours: 3 hour lecture

Prerequisites: IDE 110, Math 204

CC 7304, Chemistry 221, Organic Chemistry I. Form withdrawn and returned to department.

CC 7305, Physics 407, Modern Physics. Course deletion approved effective Spring 2008.

CC 7306, Physics 475, Molecular Spectroscopy. Course deletion approved effective Spring 2008.

CC 7307, Civil Engineering 218, Structural Analysis. Course deletion approved effective Fall 2008.

CC 7308, Mining Engineering 221, Mining Exploration. The following change has been approved effective Spring 2008.

Prerequisite – Present: Geo 125, Geo 220 and Mi Eng 110

Proposed: Geo 125 and Mi Eng 110

CC 7312, Mining Engineering 270, Mining Industry Economics. The following change is approved effective Spring 2008.

Prerequisites – Present: Accompanied or preceded by Mi Eng 221

Proposed: None

CC 7313, Mining Engineering 307, Principles of Explosives Engineering. The following change is approved effective Spring 2008.

Prerequisites – Present: Geo Eng 50; accompanied or preceded by either Cv Eng 215 or Geo 220

Proposed: Accompanied or preceded by either Cv Eng 215 or Geo 220 or Geo 125

CC 7314, Mining Engineering 312, Ore Reserve Analysis and Geostatistics. The following change is approved effective Spring 2008.

Prerequisites – Present: Math 22, Math 204, Stat 213

Proposed: Math 204, Stat 213

CC 7315, Mining Engineering 317, Mine Power and Drainage. The following change is approved effective Spring 2008.

Prerequisites – Present: Cv Eng 230

Proposed: None

CC 7316, Mining Engineering 322, Mine Management. The following change is approved effective Spring 2008.

Prerequisites – Present: Completion of 120 credits in Mining Engineering curriculum

Proposed: Completion of 100 credits in Mining Engineering curriculum

CC 7317, Mining Engineering 324, Underground Mining Methods and Equipment. The following change is approved effective Spring 2008.

Prerequisites – Present: Mi Eng 003, coreq. Mi Eng 221 and Mi Eng 231

Proposed: Coreq. Mi Eng 221 and Mi Eng 331

CC 7318, Mining Engineering 326, Surface Mining Methods and Equipment. The following change is approved effective Spring 2008.

Prerequisites – Present: Mi Eng 215; coreq. Mi Eng 231; junior or senior standing

Proposed: Mi Eng 215; coreq. Mi Eng 331

CC 7319, Mining Engineering 344, Coal Preparation. The following change is approved effective Spring 2008.

Prerequisites – Present: Met Eng 241 and senior standing

Proposed: Mi Eng and senior standing

CC 7320, Mining Engineering 393, Mine Planning and Design. The following change is approved effective Spring 2008.

Prerequisites – Present: Completion of 120 hours in Mining Engineering curriculum

Proposed: Completion of 110 hours in Mining Engineering curriculum

CC 7321, MSE 444, Instructional Education for Graduate Students. Course deletion approved effective Fall 2008.

CC 7335, Engineering Mechanics 321, Intermediate Mechanics of Materials. Course deletion approved effective Summer 2008.

Review of submitted EC forms:

EC 2010, Civil Engineering 301, Introduction to Traffic Simulation Models, approved effective Spring 2008.

Course Description: Fundamentals of system simulation, components of a simulation model, traffic flow simulation approaches, application of traffic flow simulation software, output analysis, and simulation of Intelligent Transportation Systems (ITS).

Credit Hours: 3 hour lecture

Prerequisites: Stat 213, CE 211, CE 353 (or concurrent enrollment)

EC 2011, IDE 301, Renewable Power Systems Design, approved effective Spring 2008.

Course Description: The fundamental equations for modeling renewable power systems capable of producing electric and thermal energy will be covered. Models will be used to design, fabricate and test renewable residential power systems.

Credit Hours: 2 hour lecture 1 hour lab Total: 3

Prerequisites: IDE 214 or EE 265 or ME 211

EC 2013, Engineering Management 301, Intelligent Investing, approved effective Summer 2008. During the approval of this course the Finance Program voiced a concern that they have an interest in teaching this type of course sometime in the near future.

Course Description: In this course we examine methods and tools, which support building a personal portfolio that leads to long-term wealth for the owner. The approach is based on the teachings of Benjamin Graham and Warren Buffet.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 2014, Aerospace Engineering 401, Mechanical Engineering 401, Advanced Topics in Decision and Control, approved effective Spring 2008.

Course Description: This course will deal with latest topics in the areas of decision and control. Course could be repeated if topics vary.

Credit Hours: 3 hour lecture

Prerequisites: AE 381 or Equivalent

EC 2015, Mathematics 301, Introduction to Number Theory, approved effective Summer 2008.

Course Description: Basic properties of the integers, factorization, Diophantine equations, congruences, quadratic residues, Legendre symbol, quadratic reciprocity, number-theoretic functions, distribution of primes.

Credit Hours: 3 hour lecture

Prerequisites: Math 209 or graduate standing

EC 2025, Nuclear Engineering 301, Radiological Engineering, approved effective Spring 2008.

Course Description: Radiation exposure pathways analysis; modeling of radionuclides transport through atmosphere, surface and ground water. Human health impact. Transportation of nuclear waste. Nuclear Waste characterization. Regulatory structure and requirements. Scenario case studies and computer simulation.

Credit Hours: 3 hour lecture

Prerequisites: Nu Eng 205

Review of Tabled Items:

NC 13, Business Administration and Information Science & Technology. A proposal to merge the department of Business Administration and Information Science & Technology into one department called Business and Information Technology approved effective July 1, 2008.

Items Still Tabled:

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

The meeting adjourned at 4:05 p.m. The next meeting will be Tuesday February 5, 2008 @ 3:00 p.m. in 117 Fulton Hall.

J. Keith Nisbett, Chair
Missouri S&T Campus Curricula Committee