

Minutes  
Campus Curricula Committee Meeting  
August 15, 2011  
11 a.m. Room 117 Fulton Hall

Approval of the May 4, 2011 minutes.

**Review of submitted EC forms:**

EC 2344, Geological Engineering 401, Fundamentals of Rock Mechanics, approved effective Fall 2011.

Course Description: This course is a graduate-level introduction to, and review of, geomechanics, with emphasis on topics pertinent to geological engineering in continuous and discontinuous rock masses.

Credit Hours: 3 hour lecture

Prerequisites: IDE 110

EC 2349, Ceramic Engineering 301, Diffraction Theory and Practice, approved effective Fall 2011.

Course Description: The relationship between crystallographic symmetry and diffraction of x-ray and electron beams will be explored. Theoretical aspects will be addressed in lectures dealing with diffraction theory such as structure factor calculations.

Laboratory exercises will emphasize practical aspects of diffraction analysis using state-of-the-art instruments.

Credit Hours: 2 hour lecture, 1 hour lab

Prerequisites: Cer Eng 291

EC 2351, Mechanical Engineering 401, Mechanics of Machinery, approved effective Fall 2011.

Course Description: Rigid-body kinematics, dynamics and synthesis of mechanisms; cam-follower mechanisms; mathematical modeling of mechanisms containing elastic elements; transient and steady-state vibration response; parametric instability in elastic mechanisms; advanced topics in compliant mechanisms; high performance mechanisms.

Credit Hours: 3 hour lecture

Prerequisites: Vector & matrix analysis; introductory planar kinematic & dynamic analysis of mechanisms; ME 304 or approved equivalent.



**New Business:**

Daniel Tauritz was elected CCC Chair for the 2011-2012 academic year. The next meeting will be Wednesday September 7<sup>th</sup> at noon in 117 Fulton Hall.

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Daniel Tauritz, Chair  
Missouri S&T Campus Curricula Committee

