

**THE UNIVERSITY OF WISCONSIN-MILWAUKEE  
College of Engineering and Applied Science**

**FACULTY MEETING**

**Friday, September 26, 2003 1:30 P.M. EMS E190**

**AGENDA**

**I. ANNOUNCEMENTS**

**II. INTRODUCTIONS**

**A. FACULTY**

1. Junhong Chen, Assistant Professor, Mechanical Engineering  
Ph.D., University of Minnesota, 2002
2. Subramani Mani, Assistant Professor, Computer Science  
Ph.D., University of Pittsburgh, October 2003
3. Lei Ying, Assistant Professor, Electrical Engineering  
Ph.D., University of Illinois at Urbana-Champaign, 2003

**III. AUTOMATIC CONSENT BUSINESS**

- A. Approval of Minutes of April 23, 2003 meeting
- B. New Courses and Course Changes -- See Attachment 1

**IV. SPECIAL ORDER OF BUSINESS -- Awards**

- A. Faculty Teaching Awards

**V. INFORMAL REPORTS**

Office of Student Services	Todd Johnson
Curriculum Committee	Professor Law
Graduate Program Subcommittee	Professor Rohatgi
Faculty Senate	Professor Buechler
Graduate Faculty Council	Professor Amano

**VI. UNFINISHED BUSINESS – None**

**VII. NEW BUSINESS -**

1. Modifications to the Advancement to Engineering Major requirements --  
Attachment 2

**VIII. GENERAL GOOD AND WELFARE**

**IX. ADJOURNMENT**

John R. Reisel, Secretary  
CEAS Faculty

JRR:bk  
Attachments

**NEW COURSES**

MECHENG 707 TRANSPORT IN POROUS MEDIA. 3 cr., G.  
Introduction to fluid mechanics in porous media, single-and multi-phase flows, volume averaged transport equations, convection heat transfer, consolidating porous media, volume averaging theory, applications.  
Prereq: grad st

**COURSE CHANGES**

EAS 200 PROFESSIONAL SEMINAR. 0 cr., U.  
Professional orientation and career planning. Current issues in the profession. Fee for 1 cr assessed.  
Prereq: none

had been

EAS 200 PROFESSIONAL SEMINAR. 0 cr., U.  
Professional orientation and career planning. Current issues in the profession. Fee for 1 cr assessed. Required of all CEAS soph.  
Prereq: soph st

MATLENG 410 MECHANICAL BEHAVIOR OF MATERIALS. 3 cr., U/G.  
Elastic, plastic, viscous behavior of materials, creep, fatigue, dislocation theories of crystal deformation.  
Prereq: jr st, admis to MatlEng major, & MATLENG 201(P); or grad st; or cons dept chair

had been

MATLENG 410 MECHANICAL BEHAVIOR OF MATERIALS. 3 cr., U/G.  
The behavior and response of materials to applied forces, including applied elasticity, plasticity, viscosity, dislocation theories of crystal deformation, dependence of mechanical properties on structures, the strength of solids, creep, and fracture.  
Prereq: jr st; MATLENG 201(P)

MATLENG 442 THERMODYNAMICS OF MATERIALS. 3 cr., U/G  
Third law of thermodynamics; application of thermodynamics to materials processes and systems; behavior of solutions; reaction equilibria.  
Prereq: jr st, admis to MatlEng major, MATLENG 201(P), & MECHENG 301(P); or grad st; or cons dept chair.

had been

MATLENG 442 THERMODYNAMICS OF MATERIALS. 3 cr., U/G  
Third law of thermodynamics; application of thermodynamics to materials processes and systems; behavior of solutions; reaction equilibria.  
Prereq: jr st & MECHENG 301(P); or grad st

Proposal: Require the completion of EAS 200 Professional Seminar for advancement to the engineering major.

Rationale: EAS 200 is designed to provide sophomore level students with information and guidance regarding their engineering education and professional development. To address issues raised by ABET, group advising sessions with faculty members from the student's intended major were incorporated into the course. Currently there is no mechanism to require students to take this course at the appropriate point in the program. By requiring it for advancement to major status, students will be required to take this course prior to taking junior level courses that require major status.

**Current Requirement**

Advancement to major status for students in undergraduate Engineering program has these 5 requirements:

1. Completion of a minimum of 24 credits required for major (excludes GER, pre-calculus math, and orientation courses)
2. Completion of Math 232 (or 222) with "C" or better grade.
3. Satisfaction of GER English composition requirement.
4. Minimum cumulative GPA in all courses in item 1 as set by department.
5. Advancement to the major is a graduation requirement.

**Proposed Requirement**

Advancement to major status for students in undergraduate Engineering program has these 6 requirements:

1. Completion of a minimum of 24 credits required for major (excludes GER, pre-calculus math, and orientation courses)
2. Completion of Math 232 (or 222) with "C" or better grade.
3. Completion of EAS 200 Professional Seminar.
4. Satisfaction of GER English composition requirement.
5. Minimum cumulative GPA in all courses in item 1 as set by department.
6. Advancement to the major is a graduation requirement.