Faculty Meeting
April 29, 2010

Marcelle E. Wood
Assistant Dean for UG Education and Diversity
A. Brian Schwarz
Director of Advising
Agenda

• Motion to award degrees

• Motion to approve the courses and curricula changes

• UG Program Updates
Motion to Award Degrees

“That the faculty recommend to the Board of Trustees that they grant the degree of Bachelor of Science in Engineering to the following students who have majored in Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science & Engineering, Electrical Engineering, Engineering Physics, Environmental Engineering, Material Science & Engineering or Mechanical Engineering and that they grant the degree of Bachelor of Science to the following students who have majored in Computer Science or Management & Engineering for Manufacturing effective May 9, 2010 and August 2010, providing that a committee consisting of the Assistant Dean, Director of Advising and Degree Auditor be authorized to withhold any degree for which the requirements have not been met on Commencement Day or to add the name of any person to the list who has met the requirement for a degree on Commencement Day”
Motion to approve the courses and curricula changes

“The catalog, course and program changes approved in the School of Engineering Curricula and Courses Committee report dated April 2010 be approved”
Summary of Approved Changes

• BM E - tracks reviewed and modified
• CHEG – Remove semester course offering info
• ECE – Editorial changes
• MEM – Adding indep study course
• MSE – Adding a new 2000 course and new concentration (Electronic Mtls)
UG Program Updates

• Admission and projected enrollments fall 2010
• Engineering minors and concentrations
• Developing new engineering major
• ICe (Innovation, Creativity and entrepreneurship)
• Engineering for Impact
• New Research Scholarships
• GK-12 initiative
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**Projected enrollment fall 2010**

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Minors

Bioinformatics
Biomedical Engineering
Computer Science
Electronics & Systems Engineering
Management

Environmental Engineering
Information Technology
Materials Science & Engineering
Nanomaterials
Nanotechnology
New Systems Engineering Major in Committee
Educational Initiatives

• Introduction to Computing - teaches MATLAB
• Engineering Orientation - 2 engr. projects and ICE
• Second Semester Engr. course - 1-week ICE module added
• Need to continue the ICE thread throughout the sophomore and junior year
• Entrepreneurial Senior Design Program
Educational Initiatives

• Global Engineering Education Exchange – GE3 (17 countries-41 Universities) lectures mostly in English

• Study abroad and Nationally for example: Lund Univ., Sagang Univ., Univ. of Hong Kong, National Chengchi Univ. and Osaka Univ.

• Normal Study Abroad opportunities
Educational Initiatives

• Engineering for Impact – “not just a course but an experience”

• Engineers at all 6 campuses!
Outreach and Diversity Activities

• The daVinci Project
• The Joule Fellows Program (JFP)
• GK-12 Grant
  • Graduate students 10 per year
  • Undergraduate students
  • Technical HS students
  • Technical HS teachers
Ingenuity Incubators

- Groundbreaking $2.7 Million
- National Science Foundation GK-12 Program
- 5 Years
- Collaborators
  - Doug Cooper, PI
  - Mun Y. Choi
  - Kazem Kazerounian
  - Ruth Washington
Ingenuity Incubators: Scope

- Innovative educational program in sustainable engineering research
- Constituencies:
  - Graduate Students - 10a/year
  - Undergraduate Students
  - Tech School Students
  - Tech School Teachers
- Representative Research:
  - Carbon-neutral energy technologies
  - Water purification
  - Environmental biotechnology
Ingenuity Incubators: Tech Schools

- Untapped resource for college recruiting
- Vocation-oriented student pool
- Technical acumen - visual, tactile subjects

- Challenges-
  - Preparing student academically to succeed
  - Exposure to novel technologies
  - Creative problem solving
  - Teamwork collaboration
Ingenuity Incubators: Better Grad Students

- Novel research - sustainable engineering
- Enhanced communications skills with novice audience
- Better leaders
- Collaborative, team-building skills
- Instructional success
Ingenuity Incubators: Better Undergraduates

- Hands-on research - sustainable engineering
- Technical communications
- Mentorship experience
- Team-building skills
Ingenuity Incubators: Better Teachers

- Tech School instructors at Uconn
- Instructional enrichment
- Research immersion
- 5-Week summer programs
  - Joule Fellows
  - da Vinci Project
- $5K stipend
Scholarships

- Current Scholarships 238 = $385,000
- Eli Terry Engineering Enrichment 20-25 scholarships annually totaling $50,000
- GK-12 Tech HS scholarships $120,000 per year. 20 scholarships at $6.5K (maximum)
Graduate Fellowships

• NSF GK-12 - Sustainable Engineering Research
  – Stipend levels of $30K plus $10,500 institutional allowance

• Dept of Education GAANN:
  – 25 to 35 Fellowships for American Ph.D. students
  – Stipend levels of $20-$30K and $13.5K in institutional allowance per student
Thanks

ANY QUESTIONS?