Master of Engineering Degree

College of Engineering & Applied Science

WELCOME!!
Educational Objectives

- Focus on the **practice** of engineering and better serve working professionals
- Students obtaining the Master of Engineering degree will typically not matriculate into a PhD program – but some will
- Provide opportunities for continued education and professional development in the context of an advanced degree
Master of Engineering Degree

- Course work based degree – no thesis
- Minimum of 30 credit hours
  - Core Courses
  - Track Courses
  - Elective Courses
  - Capstone Project
Academic Advising

- CoE Advisor
- Faculty academic advisor
Academic Advising

- CEAS – Eugene Rutz
- Aero – Dr Kelly Cohen
- BME – Dr. Jeff Johnson
- CS – Dr Fred Annexstein
- EE & Comp E – Dr. Frank Zhou
- Civil – Dr GA Rassati
- Environmental – Dr Dominic Boccelli
- ChemE – Junhang Dong
- ME – Dr. Janak Dave
- Materials – Dr. Relva Buchanan
Academic Advising

- “Big Picture” questions and questions about core courses – E Rutz

- Discipline specific questions, track courses, capstone – Discipline Advisor
Core Courses

A set of core courses integrated around

- Project/Task Management Development
- Interpersonal Skills Development
- Advanced Technical Skills Development
Core Courses and Status (9 credits)

- **Project / Task Management Development**
  - Engineering Economic Analysis*
  - Quality Control*
  - Project Management
  - Entrepreneurship and Technology Law

- **Interpersonal Skill Development**
  - Management of Professionals
  - Leadership
  - Effectiveness in Technical Organizations*

- **Advanced Technical Skill Development**
  - Computational Methods
  - Optimization
  - Simulation Modeling
  - Numerical Analysis
  - Modeling & Simulation

*On-line
A Capstone Course (3 credits) as an integration experience

- Tailored to student’s learning objectives
- Can satisfy with internship
- Written report and presentation
- Some programs also have the choice of writing a paper or sitting for a comprehensive exam
## Typical Schedule

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<th>Autumn</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td>Core Course #1</td>
<td>Core Course #3</td>
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<td>Core Course #2</td>
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<tr>
<td><strong>Track Required Courses</strong></td>
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<td><strong>Elective Courses</strong></td>
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<td><strong>Capstone</strong></td>
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<td>Capstone Project</td>
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<tr>
<td><strong>Credit Hours</strong></td>
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Program of Study

- Guides progress through the degree
- Identifies constraints
- Can be modified

- Needs Advisor signature
Transferring to MS / PhD

- Students can transfer from MEng status to M.S., or Ph.D. status only after one full year of residency as an MEng student.
- Written application required with signatures from a faculty member who will serve as their graduate research advisor, the appropriate department head, the departmental graduate study advisor and the Associate Dean for Graduate Studies and Research.
● Questions