Class Schedule - Fall 2012

Engineering

ENG 198  **Special Topics**  credit: 0 TO 4 hours.
Subject offerings of new and developing areas of knowledge in engineering intended to augment the existing curriculum. See Class Schedule or college course information for topics and prerequisites. Approved for both letter and S/U grading. May be repeated in the same or separate terms if topics vary.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>60321</td>
<td>Discussion/Recitation</td>
<td>AD1</td>
<td>03:00 PM - 03:50 PM</td>
<td>W</td>
<td>1304 - Siebel Center for Comp Sci</td>
<td>Hyman, K Price, R</td>
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<tr>
<td>60322</td>
<td>Discussion/Recitation</td>
<td>AD2</td>
<td>04:00 PM - 04:50 PM</td>
<td>W</td>
<td>1302 - Siebel Center for Comp Sci</td>
<td>Hyman, K Price, R</td>
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<tr>
<td>57825</td>
<td>Lecture</td>
<td>AL1</td>
<td>03:00 PM - 03:50 PM</td>
<td>M</td>
<td>243 - Mechanical Engineering Bldg</td>
<td>Hyman, K Price, R</td>
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<tr>
<td>60291</td>
<td>Lecture-Discussion</td>
<td>EGL</td>
<td>03:00 PM - 04:50 PM</td>
<td>MW</td>
<td>1103 - Siebel Center for Comp Sci</td>
<td>Gowrishankar, S Viswanathan, M</td>
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</table>

Aspirations to Leadership Dis1
Meets 24-Sep-12 - 12-Dec-12.
Only students registered in Aspirations to Leadership, CRN: #57825 may register for this discussion section.
Restricted to First Time Freshman students.

Aspirations to Leadership Dis2
Meets 24-Sep-12 - 12-Dec-12.
Only students registered in Aspirations to Leadership, CRN: #57825 may register for this discussion section.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
Aspirations to Leadership
Meets 24-Sep-12 - 12-Dec-12.
Engineers need to be technically proficient and knowledgeable. But great engineers possess more than technical expertise to turn their ambitions and aspirations into reality. This course will focus on ways to develop the habits of mind and heart - emotional intelligence, initiative, curiosity and practical understanding - necessary to become a great engineering leader. Particular attention will be given to developing the innovation, creativity, courage and entrepreneurial capacities of students who see themselves as future leaders of student organizations here at Illinois, and in the workplace. Students must enroll in either discussion section #60321 or #60322.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
Engr for Global Development
Meets 24-Sep-12 - 12-Dec-12.
This course will focus on developing products to serve the needs of those living in low-income communities, domestically and internationally. Rather than begin with a predetermined technology, this course will teach students to be bottom-up in beginning with life circumstances and cultural issues and then using such understanding to design engineering solutions. This learning experience is based on pioneering work at the University of Illinois including 15 years of research through the Subsistence Marketplaces Initiative (www.business.illinois.edu/subsistence), and extensive teaching and social initiatives.
Restricted to First Time Freshman students.
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Type</th>
<th>Time</th>
<th>Day</th>
<th>Instructor(s)</th>
<th>Location</th>
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<tr>
<td>60357</td>
<td>Lecture-Discussion</td>
<td>EMA 03:00 PM-04:50 PM</td>
<td>M</td>
<td>Bertness, E Orozco, C</td>
<td>ARR - Digital Computer Laboratory</td>
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<td>60358</td>
<td>Lecture-Discussion</td>
<td>EMB 12:00 PM-01:50 PM</td>
<td>W</td>
<td>Litchfield, J Macdonald, R Regan, D</td>
<td>ARR - Digital Computer Laboratory</td>
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<td>54769</td>
<td>Lecture-Discussion</td>
<td>EVS 07:00 PM-07:50 PM</td>
<td>W</td>
<td>Brunet, M Favila, I Larson, S</td>
<td>106B3 - Engineering Hall</td>
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<td>60340</td>
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<td>R</td>
<td>-</td>
<td>Litchfield, J</td>
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<td>56321</td>
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<td>PR1 11:00 AM-12:50 PM</td>
<td>MW</td>
<td>Litchfield, J Wilcox, B</td>
<td>ARR - Digital Computer Laboratory</td>
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Credit Hours: 1 hours
Essentials in MATLAB & Excel
Meets 24-Sep-12 - 12-Dec-12.
Learn how to use computational tools that will be valuable in several engineering courses. These powerful techniques will save you time on engineering homework and will be essential in your engineering career. This course is especially recommended for ECE and Aerospace students. Meets in DCL L416.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
Essentials in MATLAB & Excel
Meets 24-Sep-12 - 12-Dec-12.
Learn how to use computational tools that will be valuable in several engineering courses. These powerful techniques will save you time on engineering homework and will be essential in your engineering career. This course is especially recommended for ECE and Aerospace students. Meets in DCL L416.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
EVS Scholars
Instructor Approval Required
Day, time, and location TBD.

Credit Hours: 1 hours
Grand Challenges
Meets 24-Sep-12 - 12-Dec-12.
Cohorts of students with similar interests work together on a topic of global importance. A committee of the National Academy of Engineering determined 14 Grand Challenges for this century, and you will choose one - or a similar alternative - to study. Meets weeks 5 through 15. Informational meetings will be held the first four Thursdays of the semester at 5pm in 1404 Siebel. Meets in 1404 Siebel.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
IEFX Projects 1
Meets 24-Sep-12 - 12-Dec-12.
IEFX Projects - Reinforcing the fundamental concepts introduced in ENG100, you will work in small teams on real engineering projects led by experienced Engineering Learning Assistants. You learn problem-solving strategies and build skills in group formation, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations and may be your own creation or chosen from a list prepared by the instructors. Meets in 2320 DCL.
Restricted to First Time Freshman students.
<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Lecture</th>
<th>PR</th>
<th>Time</th>
<th>ARR</th>
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<td>56315</td>
<td>Lecture PR2</td>
<td>01:00 PM - 02:50 PM</td>
<td>MW</td>
<td>ARR - Digital Computer Laboratory</td>
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<td>58916</td>
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<td>106B3 - Engineering Hall</td>
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<td>60395</td>
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<td>M</td>
<td>106B6 - Engineering Hall</td>
<td>Litchfield, J</td>
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Credit Hours: 1 hour
IEFX Projects 2
Meets 24-Sep-12 - 12-Dec-12.
IEFX Projects - Reinforcing the fundamental concepts introduced in ENG100, you will work in small teams on real engineering projects led by experienced Engineering Learning Assistants. You learn problem-solving strategies and build skills in group formation, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations and may be your own creation or chosen from a list prepared by the instructors. Meets in 2320 DCL. Restricted to First Time Freshman students.

Credit Hours: 1 hour
IEFX Projects 3
Meets 24-Sep-12 - 12-Dec-12.
IEFX Projects - Reinforcing the fundamental concepts introduced in ENG100, you will work in small teams on real engineering projects led by experienced Engineering Learning Assistants. You learn problem-solving strategies and build skills in group formation, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations and may be your own creation or chosen from a list prepared by the instructors. Meets in 2320 DCL. Restricted to First Time Freshman students.

Credit Hours: 1 hour
Renaissance Engineer
Meets 24-Sep-12 - 12-Dec-12.
Based on the premise that broadly interdisciplinary knowledge promotes creativity, this course allows you to explore wide ranging topics and then connect your new learning to engineering and the solving of global problems. You will study a few preliminary topics (e.g., in art, science, design, or history) to help establish a renaissance mindset, you will then study one topic of your own choosing in depth, and you will create a plan to continue your development as a renaissance engineer. Restricted to First Time Freshman students.

Credit Hours: 1 hour
Renaissance Engineer B
Meets 24-Sep-12 - 12-Dec-12.
Based on the premise that broadly interdisciplinary knowledge promotes creativity, this course allows you to explore wide ranging topics and then connect your new learning to engineering and the solving of global problems. You will study a few preliminary topics (e.g., in art, science, design, or history) to help establish a renaissance mindset, you will then study one topic of your own choosing in depth, and you will create a plan to continue your development as a renaissance engineer. Restricted to First Time Freshman students.