Class Schedule - Fall 2015

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.

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<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>MW</td>
<td>1103 - Siebel Center for Comp Sci</td>
<td>Witmer, A</td>
</tr>
</tbody>
</table>

Credit Hours: 1 hours
Inspiring Interacting Informin

Inspiring, Interacting and Informing- Secret Weapons of an Engineering Leader: Engineering leaders need to be technically proficient and knowledgeable. But the greatest leaders in engineering possess more than technical expertise to turn their ambitions and aspirations into reality. They display emotional intelligence, curiosity, a collaborative spirit, and a dedication to communicating their objectives and opinions clearly and concisely. This course will focus on building leadership skills through practice and peer-evaluation in a friendly, constructive atmosphere. Particular attention will be given to written and spoken communications, constructive dispute resolution, personal initiative, and entrepreneurial development for students who see themselves as future leaders of student organizations here at Illinois and in the workplace.
Restricted to First Time Freshman students.

| 56329 | Lecture | DRE  | 01:00 PM - 01:50 PM | MW   | ARR - Digital Computer Laboratory | Patterson, W |

Credit Hours: 1 hours
Decoding Dr. Dre

Decoding Dr. Dre: Adventures in Urban Engineering-What would happen if we examined engineering within a cultural context? Would we discover more urban geniuses like Grandmaster Flash, Missy Elliot, Dj Jazzy Jeff, Will I Am, Pharell Williams, Ralph Giles, and Dr. Dre? This course explores the impact that popular culture has had on some of today's most exciting engineering developments and aims to discover the cultural engineer in you. Our iconic subject will be Dr. Dre, who moved beyond making great rhymes and beats to developing and marketing products that impact the automotive, computer, cellphone, software, and audio industries with his company, BEATS. Meets in 2436 Digital Computer Lab.
Restricted to First Time Freshman students.

| 54771 | Lecture-Discussion | EA     | 07:00 PM - 07:50 PM | M    | -                               | Amos, J      |

Credit Hours: 1 hours
Technical Communication
Instructor Approval Required
Enrollment only for Engineering Ambassadors.

| 57135 | Lecture-Discussion | EB     | 09:00 AM - 09:50 AM | MW   | 106B3 - Engineering Hall         | Amos, J      |

Credit Hours: 1 hours
Technical Communication
Restricted to Engineering. Restricted to students with Freshman or Sophomore class standing.
Want to learn to share your passion and to inspire any audience about science and engineering? As engineers, you will impact the health, happiness and safety of our world. Learn the skills to communicate your enthusiasm. This pilot class will concentrate on learning the skills for verbal communication, and the design of effective presentations. It will allow for multiple opportunities to practice what you learned in class.

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<tr>
<td>60291</td>
<td>Lecture-Discussion</td>
<td>EGL</td>
<td>01:00 PM - 03:50 PM</td>
<td>T</td>
<td>158 - Loomis Laboratory</td>
<td>Viswanathan, M</td>
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<td>60357</td>
<td>Lecture-Discussion</td>
<td>EMA</td>
<td>03:00 PM - 03:50 PM</td>
<td>F</td>
<td>ARR - Grainger Engineering Library</td>
<td>Witmer, A</td>
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<tr>
<td>62652</td>
<td>Lecture-Discussion</td>
<td>FW2</td>
<td>02:00 PM - 02:50 PM</td>
<td>M</td>
<td>1103 - Siebel Center for Comp Sci</td>
<td>Larson, S Wolters, A</td>
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<tr>
<td>63470</td>
<td>Lecture-Discussion</td>
<td>FYW</td>
<td>12:00 PM - 12:50 PM</td>
<td>W</td>
<td>1131 - Siebel Center for Comp Sci</td>
<td>Larson, S Wolters, A</td>
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Credit Hours: 1 hours
Engr for Global Development
Engineering for Global Development: 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.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
Essentials in MATLAB & Excel
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 57 Grainger Engineering Library.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
First-Year Women Engineers 2
Restricted to Agr, Consumer, & Env Sciences, Engineering, or Liberal Arts & Sciences. Restricted to Civil Engineering or Computer Engineering or Computer Science or Electrical Engineering or Engineering Mechanics or Engineering Physics or General Engineering or Industrial Engineering or Materials Science & Engr or Mechanical Engineering or Chemical Engineering or Bioengineering or Electrical & Computer Engr or Aerospace Engineering or Agricultural & Biological Engr or Nuclear, Plasma, Radiolgc Engr or Engineering Undeclared major(s).
Leadership and professional skill development for first-year women in engineering students. Additional focus on academic success strategies and utilizing University of Illinois resources to enhance your first-year experience.
Restricted to First Time Freshman students.

Credit Hours: 1 hours
First-Year Women Engineers
Restricted to Agr, Consumer, & Env Sciences, Engineering, or Liberal Arts & Sciences. Restricted to Civil Engineering or Computer Engineering or Computer Science or Electrical Engineering or Engineering Mechanics or Engineering Physics or General Engineering or Industrial Engineering or Materials Science & Engr or Mechanical Engineering or Chemical Engineering or Bioengineering or Electrical & Computer Engr or Aerospace Engineering or Agricultural & Biological Engr or Nuclear, Plasma, Radiolgc Engr or Engineering Undeclared major(s).
First-Year Women Engineers: Leadership and professional skill development for first-year women engineering students. Additional focus on academic success strategies and utilizing University of Illinois resources to enhance your first-year experience.
Restricted to First Time Freshman students.
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<tr>
<td>60340</td>
<td>Lecture-Discussion</td>
<td>GC</td>
<td>02:00 PM - 02:50 PM</td>
<td>100 - Materials Science &amp; Eng Bld</td>
<td>Bradley, J</td>
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<tr>
<td>52579</td>
<td>Lecture-Discussion</td>
<td>IEF</td>
<td>03:00 PM - 04:50 PM</td>
<td>106B1 - Engineering Hall</td>
<td>Mitchell, M</td>
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<tr>
<td>57825</td>
<td>Lecture</td>
<td>IS</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>204 - Transportation Building</td>
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<td>56321</td>
<td>Lecture</td>
<td>PR1</td>
<td>11:00 AM - 12:50 PM</td>
<td>MW</td>
<td>2320 - Digital Computer Laboratory</td>
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<td>56315</td>
<td>Lecture</td>
<td>PR2</td>
<td>01:00 PM - 02:50 PM</td>
<td>MW</td>
<td>2320 - Digital Computer Laboratory</td>
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Credit Hours: 1 hour
Grand Challenges
Work on the National Academy of Engineering "Grand Challenges." This course gives you the opportunity to join a cohort with similar interests and identify what you want to learn about a topic of global importance. We believe that if you choose a significant topic and design your own instruction, then you will learn deeply and well. You will work with people of similar interest and will be under the guidance of faculty and advanced students.
Restricted to First Time Freshman students.

Credit Hours: 2 hours
IEFX Research
One reason to experience Engineering at Illinois is the research, and this class is an introduction. You will learn about methods and conduct a project, presenting your results at the IEFX Explorations event in December. You will explore options to be involved beyond the class, and if interested, you may initiate contact with faculty to join a research project/team or start your own.
Restricted to First Time Freshman students.

Credit Hours: 2 hours
Introduction to Sustainability
In this course, we will learn about issues related to sustainability and sustainable practices, both in engineering and in our personal lives. You will apply these sustainability practices to an engineering process or product.
Restricted to First Time Freshman students.

Credit Hours: 2 hours
IEFX Projects 1
IEFX Projects - Reinforcing the fundamental concepts introduced in ENG 100, 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, project management, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations. Projects may be of your own creation or chosen from an instructor prepared list.
Restricted to First Time Freshman students.

Credit Hours: 2 hours
IEFX Projects 2
IEFX Projects - Reinforcing the fundamental concepts introduced in ENG 100, 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, project management, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations. Projects may be of your own creation or chosen from an instructor prepared list.
### IEFX Projects 3
- **Credit Hours:** 2 hours
- **Meeting Dates:** 21-Sep-15 - 09-Dec-15
- **Description:** Reinforcing the fundamental concepts introduced in ENG 100, 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, project management, communication, and teamwork. The subject of the projects will help you explore your interests and aspirations. Projects may be of your own creation or chosen from an instructor prepared list.
- **Restriction:** Restricted to First Time Freshman students.

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<tbody>
<tr>
<td>56323</td>
<td>Lecture</td>
<td>PR3</td>
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<td>2320 - Digital Computer Laboratory</td>
<td>Bradley, J</td>
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### Renaissance Engineer
- **Credit Hours:** 1 hour
- **Meeting Dates:** 21-Sep-15 - 09-Dec-15
- **Description:** Are you someone who likes to connect different fields (e.g., art, science, design, or history)? Based on the premise that broad 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 to help establish a renaissance mindset, and then you will study one topic of your own choosing in depth. You will create a plan to continue your development as a renaissance engineer.
- **Restriction:** Restricted to First Time Freshman students.

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<tbody>
<tr>
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<td>REN</td>
<td>11:00 AM - 11:50 AM</td>
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<td>106B3 - Engineering Hall</td>
<td>Bradley, J, Witmer, A</td>
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</tbody>
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### Strategies for Intl Developmnt
- **Credit Hours:** 2 hours
- **Meeting Dates:** 21-Sep-15 - 09-Dec-15
- **Description:** Strategies for International Development: This course will introduce students to a community based approach to international development in engineering projects. Through case studies, interactive projects, and hands-on workshops, students will learn the fundamentals of development work and technical skills that will guide them in future project work. Meets in 2320 DCL.
- **Restriction:** Restricted to First Time Freshman students.

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<td></td>
<td>260 - Mechanical Engineering Bldg</td>
<td>Witmer, A</td>
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