



ECEN 1111/306
Introduction to Engineering
Fall 2006
Syllabus



- Time:** Tuesday 2:00PM-2:50PM
- Place:** Engineering South 211A
- Text:** No textbook is used; some reading materials to be provided
- Instructor:** Professor Gary G. Yen, Engineering South 404
<http://www.okstate.edu/elec-engr/faculty/yen>
405-744-7743, 405-744-9198 (fax), gyen@okstate.edu
Office Hours: Tuesday/Thursday 9:00AM-12:00PM;
or by appointment only
- Success Coach:** Robert Hargrave
- Objectives:** The purpose of this course is to give you the opportunity to learn more about engineering and the problem solving, design and communication skills needed to be a successful engineer. I also want to help you become familiar with the resources available at the university, such as library and computer facilities. There will be four types of class sessions during the semester: informational sessions, design challenges, debate challenges, and critical thinking challenges. The informational sessions will cover topics such as how to use the library, how to enroll for next semester, how to join student organizations, etc. During the design challenges you will design and build several different types of systems in competition with other students, or student teams. In the debate challenges, opposing teams of students will debate the issues in several engineering case studies. For the critical thinking challenges, students will work individually and in teams to use logic and reason to analyze and solve interdisciplinary problems.
- Activities:**
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| 8/22 | Success Coaches, Why Engineering, Get Acquainted |
| 8/29 | Debate Challenge #1 (Software Infringement) |
| 9/5 | Design Challenge #1 (Bridge) |
| 9/12 | <u>Career Fair</u> |
| 9/19 | Career Opportunity (Cathy Southwick) |
| 9/26 | Library Resources (Kevin Drees) |
| 10/3 | Engineering Tomorrow |
| 10/10 | FALL BREAK |
| 10/17 | No Class (SEAL06 Keynote Speech) |
| 10/24 | No Class (CAS Invited Lecture) |
| 10/31 | Debate Challenge #2 (Engineering Ethics) |
| 11/7 | Design Challenge #2 (Beakman Motor) |
| 11/14 | Design Challenge #3 (Light Motor Control) |
| 11/21 | Design Challenge #4 (Boat) |
| 11/28 | Design Challenge #5 (Ballistic Missile) |
| 12/5 | Term Project Presentation |

- Grading:** Numerous homework/report will be assigned and graded. Attendance will be accounted to the 50% of grades. **A**-85% above; **B**-76%-85%; **C**-66%-75%; **D**-56%-65%; **F**-55% below
No makeup exams will be given.
- Drop and Add:** The instructor will follow University, College and Departmental guidelines for drops and adds. Consult the calss schedule book or departmental counselors for more information.
- Attendance:** Students will be expected to attend class. Habitual failure to do so will result in a reduced grade. Class attendance is taken occasionally for reference.
- An incomplete grade will only be given when a student misses a portion of the semester because of illness or accident. All (I) grades must be completed within thirty days.
- Academic Integrity:** The instructor will strictly follow OSU's Academic Integrity Policy. Cheating on homework, quizzes or examinations, plagiarism and other forms of academic dishonesty are serious offenses and will subject the student to serious penalties.
- Plagiarism.** Presenting the written, published or creative work of another as your own work. Whenever you use wording, argument, data, design, etc., belonging to someone else in a paper, report, oral presentation, or other assignment, you must take this fact explicitly clear by correctly citing the appropriate references or sources. You must fully indicate the extent to which any part or parts of the project are attributed to others and provide citations for paraphrased materials.
- Disability Impairment:** If any member of the class feels that he/she has a disability and needs special accommodations of any nature whatsoever, the instructor will work with you and the University Office of Disabled Student Services to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations at some point before, during, or immediately after the first scheduled class period.
- Class Website:** You are advised to check on class website prior to each class at <http://www.okstate.edu/elec-engr/faculty/yen/fall06.html> for important information, such as handouts, homework assignments, schedule changes, old exams and etc.