Course Description
E10 is designed to allow students to explore engineering through hands-on design projects, case studies, and problem-solving using computers. Students will learn about the various aspects of the engineering profession and acquire both technical skills and non-technical skills, in areas such as communication, teamwork, and engineering ethics. In addition, the course supports students in their efforts to succeed in engineering through personal and professional development.

Prerequisites: High School Geometry, Trigonometry, and Algebra.

Required Textbooks: There are no textbooks required for this course. All the lecture notes, assignments, and special instructions are contained in the SJSU eCampus website for E10. (See http://sjsu6.blackboard.com/webct/entryPageIns.dowebct to access the website.)

Other Requirements:

1. Each student shall be assigned to and be provided with an electronic “clicker” for a refundable deposit of $20.00.
2. Obtain a SJSU e-mail account.
3. Familiarize him/herself with the “eCampus website” for E10 navigation.
4. Download the free Autodesk “Inventor 2008” software via the SJSU e-mail account. (Refer to the instructions in the E10 eCampus website.)

Laboratory:
All students must register for and attend a 3-hour/week lab. Lab sections have ~24 students each and will be team based. Each team will consist of four (4) members and will be engaged in at least four (4) different projects, each revealing issues pertinent to the various engineering disciplines.

Lecture:
There will be two, 1-hour lectures per week. Several guest speakers will discuss various aspects of the engineering profession, engineering tools and non-technical skills, such as communication skills, team skills, global and environmental issues and engineering ethics. Lecture homework will by assigned by the individual instructor/guest speaker.

Participation:

a. Seminar: iClickers will be used to answer questions during each and every lecture session, so make sure you bring your to lecture.

b. Laboratory: At the end of each laboratory session, each student shall complete, sign and turn in the Lab Activity Summary/Data collection form and write a short summary of what was learned during the session.
**Teamwork**
You will be required to work in teams for a number of assignments. Your contribution towards all assigned team projects must be proportionally equivalent to the rest of the team. Your Laboratory section instructor will form all the teams during the start of the semester.

**Campus policy in compliance with the Americas with Disability Act:**
“If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with your instructor as soon as possible, or see your instructor during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.”

**Academic Honesty**
Academic honesty is expected without question in this course. Students who are found to have submitted work that was obtained or produced dishonestly will suffer the following two consequences: (a) a grade of zero (0) will be given for the assignment in question; and (b) a report of the incident will be filed with the university. This report may stay on your permanent collegiate record and may also be subject to further disciplinary action being taken by the university. Examples of such work include, but are not limited to: papers you wrote for someone else, papers someone else wrote for you, plagiarism, and tests that you took for someone else or that someone else took for you. You can view the SJSU academic integrity policy at: [www.sa.sjsu.edu/judicial_affairs/index.html](http://www.sa.sjsu.edu/judicial_affairs/index.html)

**Grading**

**Lecture:** .............................................40%
- Participation: ..........15%
- Homework: ........... 10%
- Final .................. 15%

**Laboratory:** .............................................60%
- Participation/Lab Activities ................................ 21%
- Excel report/results........................................... 5%
- Turbine project report/results/presentation......... 15%
- S/F cells report/results ..................................... 5%
- Robotics results .............................................. 14%

**TOTAL: 100% = 1,000 points** (excluding the extra points)
Extra points:
Students can earn extra points in the following ways:

1) Joining a student chapter of an engineering professional society during the first five(5) weeks of the semester: = 30 pts. Note: you must furnish proof of membership to your laboratory instructor in order to earn these points.

2) Attending the “Silicon Valley Leaders Symposium” series: = 50 pts.
(≈ 5 pts/Symposium). Note: to obtain points for attendance at this seminar series, you MUST register electronically before each seminar. Points will not be given retroactively if you neglect to register, but still attend the seminar.

Letter Grade Distribution:

850 points < A-, A, A+ < 1,000 points
700 points < B-, B, B+ < 849 points
600 points < C-, C, C+ < 699 points
500 points < D-, D, D+ < 599 points

Instructor Office Hours And Teaching Assignments

<table>
<thead>
<tr>
<th>Instructor Name</th>
<th>e-mail address</th>
<th>Office hours</th>
<th>Office No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. John Athanasiou</td>
<td><a href="mailto:john.athanasiou@sjsu.edu">john.athanasiou@sjsu.edu</a></td>
<td>T 2:30-5:30, W 12:30-2:30, F 12:00-1:00</td>
<td>E397</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lecture sec. 26 (33157) Tu-Th 1330-1420 Lab sec. 06 (20844) W 1430-1720 Lab sec. 08 (23104) Tu 0930-1220 Lab sec. 11 (31401) W 0930-1220 Lab sec. 12 (31402) F 1230-1520 Lab sec. 23 (20849) F 0830-1120</td>
<td></td>
</tr>
<tr>
<td>Prof. Buff Furman</td>
<td><a href="mailto:bjurman@sjsu.edu">bjurman@sjsu.edu</a></td>
<td>M 1:30-3:00, TTH 2:30-3:30 W 1:30-2:30</td>
<td>E310</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lecture sec. 25 (33197) Tu-Th 0830-0920 Lab sec. 09 (23105) Th 0930-1220</td>
<td></td>
</tr>
<tr>
<td>Prof. James Yu</td>
<td><a href="mailto:jameshyu@pacbell.net">jameshyu@pacbell.net</a></td>
<td>M 12:30-2:20, T 11:30-2:00 TH 12:30-1:30,</td>
<td>IS102</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab sec. 28 (23105) T 1430-1720</td>
<td></td>
</tr>
<tr>
<td>Prof. John Yu</td>
<td><a href="mailto:z.yu@evc.edu">z.yu@evc.edu</a></td>
<td>W5:30-6:30</td>
<td>E397</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab sec. 07 (23104) W 1830-2120 Lab sec. 10 (31400) Tu 1830-2120</td>
<td></td>
</tr>
<tr>
<td>Prof. Ken Youssefi</td>
<td><a href="mailto:Youssefi@aol.com">Youssefi@aol.com</a></td>
<td>MW 10:30-11:30, 3:00-4:00</td>
<td>IS106</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab sec. 27 (33158) Th 1430-1720</td>
<td></td>
</tr>
</tbody>
</table>