



<b>EE,CE,TE 4388</b>	
<b>Course</b>	<b>Senior Design Project I (3 Credits)</b>
<b>Professor</b>	Dr. Nicholas Gans
<b>Term</b>	Fall Semester 2016
<b>Meetings</b>	Tuesday & Thursday: 8:30pm-9:45pm ECSS 2.415 Note that all sections of Senior Design I will meet together for lectures during the first several weeks of the semester, and as needed later in the semester.

*These descriptions and timelines are subject to change at the discretion of the Professor.*

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#### **Professor's Contact Information**

<b>Office Phone</b>	972-883-4341
<b>Other Phone</b>	N/A
<b>Office Location</b>	ECSN 4.910 (My research lab is in ATC 1.608, so I am often there)
<b>Email Address</b>	<a href="mailto:ngans@utdallas.edu">ngans@utdallas.edu</a>
<b>Office Hours</b>	Monday and Wednesday 3:00 PM - 4:00 PM or by appointment

#### **General Course Information**

**Pre-requisites, Co-requisites, & other restrictions**

**Course Description**

**EE 4388 - Senior Design Project I** - First of two sequential semesters devoted to a team project that engages students in the full engineering design process. The goal of senior design projects is to allow the student to run/participate in engineering projects related to an appropriate industry. Thus, all teams are to follow standard industrial practices and methods. Teams must carry the engineering project to completion, examining real world and multiple design constraints, following applicable industry and business standards. Such constraints may include but are not limited to: economic, environmental, safety, industrial standards, team time/resource management and cross-disciplinary/departamental result integration. Students are required to work in teams that include collaborative design interaction. Additionally, cross-disciplinary teams are encouraged but not required. In Senior Design I, project proposals will be written, reviewed and approved. Initial designs will be completed and corresponding constraints will be determined. All students will participate in a public oral and poster presentation following departmental approved guidelines at a departmental approved time and location. Teams must also submit a written end of semester progress report and documented team communication (consisting of sets of weekly reports and/or log books) following guidelines approved by the faculty.

Prerequisite: ECS 3390 and one of the following prerequisite sequences: (CE/EE 3311, CE/EE 3320, CE/CS/SE/TE 3345, and CE/CS/SE 3354), or (ENGR 3300, CE/EE/TE 3302, CE/EE 3311, and CE/EE 3320), or (ENGR 3300, CE/EE/TE 3302, and CE/CS/SE/TE 3345; pre- or corequisite EE/TE 3311) (Same as CE/TE 4388) (3-0) S

**Learning Outcomes**

- Ability to develop system specifications and perform task management based upon a customer's needs/desires.
- Ability to develop a viable system design, perform system integration, testing and evaluation.
- Ability to effectively communicate in both verbal and written forms.

- Ability to interact constructively within a multi-member design team.
- Ability to identify and understand the social and ethical ramifications of the technologies used in the designed solution.

**Required Texts & Materials**      NA

### Grading Criteria

- Project outcome points : 75%
- Student self-assessment: up to 5%
- Soft-skills: up to 10%:
  - Ethics (final reports and senior design day poster): 5%
  - Lifelong learning (proposal and final report): 1%
  - Contemporary issues (proposal and final report): 1%
  - Multi-disc teams (proposal and final report): 1%
  - Communications (semester project work and meetings): 2%
- Weekly Reports: up to 5%

### Important dates

Last day to drop a class without a “W” - Sept. 7

Last day to drop a class with a “W” – Oct. 27

Labor Day , no class – Sept. 5

Fall Break, campus closed – Nov 21 - Nov 25

<b>Proposal Due</b>	<b>TBD</b>
<b>Final Report Due</b>	<b>TBD</b>
<b>Senior Design Day – presentations and posters</b>	<b>TBD</b>

### Course Policies

<b>Grading (credit) Criteria</b>	Targeted grade ranges: A 90-100% A- 89% B+ 87-88% B 80-86% B- 79% C+ 77-79% C 70-76% C- 60-69% F <60%
<b>Make-up Exams</b>	See Grading (credit) Criteria
<b>Extra Credit</b>	Bonus project may be assigned
<b>Late Work</b>	<b>Will not be accepted</b>
<b>Special</b>	<b>At instructors discretion</b>

<b>Assignments</b>	
<b>Class Attendance</b>	Students are encouraged to attend every class.
<b>Classroom Citizenship</b>	Professional at all times. As courtesy to classmates and instructor, electronic devices, should be turned off during class, except when permitted by the instructor.
<b>Academic Integrity</b>	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.</p> <p>Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p> <p><b>I take this very seriously. Any case of suspected cheating or plagiarizing will be referred to Judicial Affairs.</b></p>
<b>Comet Creed</b>	<p><i>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:</i></p> <p><i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i></p>
<b>UT Dallas Syllabus Policies and Procedures</b>	<p><i>The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.</i></p> <p><i>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</i></p>

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