



## ECSC 2100

Course    **Engineering Projects in Community Service (1 Credit)**

Professor    Dr. Nicholas Gans

Term    Spring Semester 2016

Meetings    Wednesday: 4:00pm-5:15pm  
SPN 1.121

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### Professor's Contact Information

Office Phone    972-883-4341

Other Phone    N/A

Office Location    ECSN 4.910 (My research lab is in ATC 1.608, so I am often there)

Email Address    [ngans@utdallas.edu](mailto:ngans@utdallas.edu)

Office Hours    Monday and Wednesday 3:00 PM - 4:00 PM or by appointment

### General Course Information

Pre-requisites, Co-  
requisites, & other  
restrictions

Course Description

**ECSC 2100 - Engineering Project in Community Service** (1 semester credit hour) This is a design course in which multidisciplinary teams will solve engineering-based problems for the local community. Students will learn the complete design process, awareness of the customer in engineering design, active use of rapid prototyping tools, leadership and project management skills, communication skills, and more. This course will include lectures and instruction in UTDesign Studio

Prerequisite: None

### Learning Outcomes

- Students will acquire the ability to apply material from their discipline to the design of community based projects
- Students will gain an understanding of design as a start-to-finish process
- Students will gain the ability to identify and acquire new knowledge as a part of the problem solving/design process
- Students will learn to form an awareness of the customer's needs
- Students will function on multidisciplinary teams and learn to form appreciation for the contributions from individuals from multiple disciplines
- Students will communicate effectively both orally and written with widely-varying backgrounds
- Students will demonstrate an awareness of professional ethics and responsibility
- Students will build an appreciation of the role that their discipline can play in social contexts

Required Texts &  
Materials

NA

## Grading criteria and major due date

<b>Team Components</b>		<b>Due</b>
2%	Project Charter	Sep. 7
10%	Semester Project Plan	Sep. 21
5%	Midsemester Design Report	Oct. 19
10%	Final Presentation	Nov. 30
15%	Final Written Report	Dec. 7
5%	Project Webpage	ongoing
35%	Project Results (agreed by advisors and sponsors)	ongoing
<b>Personal Components</b>		
5%	Evaluation by peers and advisor	(2x per semester)
10%	Project Notebooks	ongoing
3%	Periodic Assignments (described when needed)	ongoing
100%		

## 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, no class – Nov 21 - Nov 25

## 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 Assignments</b>	<b>At instructors discretion</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>	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>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>

***The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.***