

ECE 4901: Computer and Electrical Engineering Design I
Fall 2013

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Teaching Assistant: Azer Faraclas (azer.faraclas@uconn.edu)
Office Hours: tba or by appt.

Class Meetings: M 12:20-1:10 W 12:20-2:15 CB 302

Laboratory Use:	The ITE C19 and C43 laboratories are available 24 hours a day, seven days a week. You can schedule your work at times convenient to you.																				
Web site:	http://ecesd.engr.uconn.edu																				
Description:	Discussion of the design process; project statement, specifications, project planning, scheduling and division of responsibility, ethics in engineering design, standards, environmental considerations, economic constraints, liability, manufacturing, and marketing. Projects are carried out using a team-based approach. Selection, analysis, and prototyping of a design project to be completed in ECE 4902 are carried out. Written weekly progress reports, a proposal, a final report, and oral presentations are required.																				
Course Objective:	The course objective is to provide an opportunity for students to apply their engineering knowledge to solve open-ended design problems using a multidisciplinary team approach.																				
Teams:	Each team must include at least three students. Each team must be multidisciplinary in nature; this is normally accomplished by including students from different programs (including EE, CMPE, EngPhys, ME, and CSE). In some cases, all participants on a particular team may be from the same program. In such a case, team members are chosen such that the members have different concentrations, expertise, or strengths. Each week you will meet with your assigned advisor as a team. At the weekly team meeting, each team member will report on progress during the previous week and plan for the following week.																				
Notebooks:	Each student must maintain a laboratory notebook in which all work is recorded. Each entry in the notebook must be dated. You must bring your notebook to each group meeting.																				
Web site:	Each team will develop a web site for the project. Each team must post weekly progress reports, a project statement, project specifications, a proposal, and a final design report on the web site.																				
Grading:	The following will be used to determine the final grades: <table> <tr> <td>Class participation</td> <td>5%</td> </tr> <tr> <td>Weekly individual deliverables¹</td> <td>20%</td> </tr> <tr> <td>Quiz</td> <td>10%</td> </tr> <tr> <td>Weekly team deliverables</td> <td>10%</td> </tr> <tr> <td>Project Statement</td> <td>5%</td> </tr> <tr> <td>Project Specifications</td> <td>5%</td> </tr> <tr> <td>Project Proposal</td> <td>10%</td> </tr> <tr> <td>Proposal Presentation</td> <td>5%</td> </tr> <tr> <td>Final Report²</td> <td>20%</td> </tr> <tr> <td>Final Presentation</td> <td>10%</td> </tr> </table>	Class participation	5%	Weekly individual deliverables¹	20%	Quiz	10%	Weekly team deliverables	10%	Project Statement	5%	Project Specifications	5%	Project Proposal	10%	Proposal Presentation	5%	Final Report²	20%	Final Presentation	10%
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¹ Participation in team meetings and other team activities; laboratory notebook

² This should be a complete design including all diagrams and the specification of all components. All components should be ordered no later than the final report due date.