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Lab Engineer: Philip Duncan, ITE 462, 486-5680

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 will be multidisciplinary in nature either by including students from different programs (including EE, CMPE, EngPhys, ME, and CSE) or students from the same program that 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>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class participation</td>
<td>5%</td>
</tr>
<tr>
<td>Weekly individual deliverables</td>
<td>15%</td>
</tr>
<tr>
<td>Quiz</td>
<td>10%</td>
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<tr>
<td>Weekly team deliverables</td>
<td>10%</td>
</tr>
<tr>
<td>Project Statement and Specifications</td>
<td>10%</td>
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<tr>
<td>Project Proposal</td>
<td>10%</td>
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<tr>
<td>PCB Design Problem</td>
<td>5%</td>
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<tr>
<td>Design Review</td>
<td>10%</td>
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<tr>
<td>Final Report</td>
<td>15%</td>
</tr>
<tr>
<td>Final Presentation</td>
<td>10%</td>
</tr>
</tbody>
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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.