ECE 4902: Computer and Electrical Engineering Design II  
Spring 2015  

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Laboratory Use: The ITE C19 and ITE C43 laboratories are available 24 hours a day, seven days a week. You can schedule your work at times convenient to you. However, a common laboratory time (Fridays 12:20-4:25 pm) has been established to facilitate team work.

Description: Design of a device, circuit, system, process, or algorithm. Team solution to an engineering problem as formulated in ECE 4901, from first concepts through evaluation and documentation. Written progress reports, a final report, and oral presentation are required. Three credits.

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.

Text: none.

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 maintain a web site. Each team must post a weekly progress report and a final report.

Grading: The following will be used to determine the final grades:

<table>
<thead>
<tr>
<th>Component</th>
<th>Due Date</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly individual deliverables</td>
<td>weekly</td>
<td>20%</td>
</tr>
<tr>
<td>Weekly Team deliverables</td>
<td>weekly</td>
<td>5%</td>
</tr>
<tr>
<td>Midterm design review</td>
<td>March 9-13</td>
<td>5%</td>
</tr>
<tr>
<td>Final oral presentation</td>
<td>April 17,24</td>
<td>10%</td>
</tr>
<tr>
<td>Completed Project</td>
<td>May 1</td>
<td>45%</td>
</tr>
<tr>
<td>Final Report &amp; Web Site</td>
<td>May 1</td>
<td>15%</td>
</tr>
</tbody>
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\[1\text{ The 10\% grade for the final presentation includes 5\% for attendance and feedback on other presentations.}\]