2014

242-01 Electronics I

Marco Fatuzzo
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Course Description and Goals: Topics include A. C. and D. C. basic analog circuits and measuring instruments, including power supplies, filters, integrated circuits and operational amplifiers, and basics of digital components and circuits. The goal of the course is to allow students to gain a conceptual understanding of the course material in a manner that fosters critical thinking and problem solving skills.

Text: Electronics: Circuits, Amplifiers and Gates, D. V. Bugg

Homework: You are encouraged to explore homework in a group setting. However, you are required to submit your own homework solutions. Homework is assigned daily throughout the lecture. Homework assignment on Tuesday is due by 3:00 pm of the following Friday, and homework assigned on Thursday is due at 3:00 pm of the following Tuesday (please turn in to me or place in my mail box in Lindner 110). A late homework will receive a 2 pt penalty (out of 20 pts) per full school day that it is late. Your lowest homework grade will be dropped when your course grade is calculated. Homework solutions will be posted on canvas.

Tentative test dates: Sept. 25, Oct. 23, Nov. 20 Final exam: 8:30 - 10:20, Tuesday, Dec. 16

Tests and the final exam (comprehensive) will cover material, problems and concepts presented in lectures and assigned for homework. A student who cannot take an exam due to a conflict with a required University sponsored event must notify me prior to the event so that suitable arrangements can be made.

A student will be allowed to use the grade on the final exam to substitute for one missed regular semester exam. A student who misses any additional regular semester exams or the final exam must submit a full written and signed explanation for their absence (including appropriate documentation) in a timely fashion. Failure to do so will lead to an unexcused absence regardless of the validity of the excuse. If the absence is excused, the student will be allowed to take a make-up exam or final at the instructor’s convenience.

Class Attendance: Attendance, though not taken, is mandatory. You are responsible for the information presented in the lectures and for any assignments made during the class time. If you are late to class or absent, you are responsible for obtaining any pertinent information that was given during class.

Grading:  
Homework 10%  
Test with lowest score 15% total  
Remaining two tests 25% each  
Final exam 25%

The homework value is based on the percentage of total possible homework points that you receive. The exam values are based on your score, but may be adjusted using a curve. Your final grade is based on the rounded (e.g. 86.65 = 86.7, 86.64 = 86.6) weighted average, using the above percentages, as fits the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>87.0-89.9 B+</td>
<td>77.0-79.9 C+</td>
</tr>
<tr>
<td>93.0-100 A</td>
<td>83.0-86.9 B</td>
</tr>
<tr>
<td>90.0-92.9 A-</td>
<td>80.0-82.9 B-</td>
</tr>
</tbody>
</table>

Courtesy: Please be on time, be engaged, and don’t disrupt the class.

The instructor reserves the right to alter this syllabus if circumstances dictate.