Spring 2018

ECE 2274 ELECTRONIC NETWORKS LAB I LAB SYLLABUS

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Lab Instructor:

1. Course Material:

Laboratory Projects will be available at http://www.courses.ece.vt.edu/ece2274/. Bring a flash drive and (optional) your proto board from ECE2074 with you to class.

2. Lab Objectives:

- To gain practical understanding of circuit theory and electronic components.
- To become familiar with basic laboratory equipment.
- To become proficient using a circuit simulator.

3. Grading:

Grade will be divided as follows: All late work must submitted prior to the Final Exam.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-lab</td>
<td>55%</td>
</tr>
<tr>
<td>Lab Report</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15%</td>
</tr>
</tbody>
</table>

- A 100% to 93%
- A- < 93% to 90%
- B+ < 90% to 87%
- B < 87% to 83%
- C+ < 80% to 77%
- C < 77% to 73%
- D+ < 70% to 67%
- D < 67% to 63%
- F < 60% to 59%

4. Pre-Labs: Each student is required to individually complete handwritten pre-labs and turn in the pre-lab at the beginning of the lab include CRN number. Failure to turn in the pre-lab will result in a “0” grade for that particular pre-lab. Late pre-labs will be accepted with prior approval with a 5 point per day penalty. Some pre-labs are lengthy; so do not wait until the last minute to start the pre-labs.

5. Lab Reports: You Must return all cables, connector and components to their proper location or receive 10 point reduction. One lab report per group, each lab report must be completed at the scheduled lab period. Missing a scheduled lab without prior approval will result in a 5 point penalty per day for that particular lab.

6. Circuit simulator: LTspice Since a circuit simulator is required to complete many of the pre-labs. You must include schematics and labeled plots, YOU MUST BE PROFICIENT IN a circuit simulator.

7. Honor Code: The Honor Code will be enforced in this class. Discussion of topics with other people in the class is fine, but all submitted work should be your own.