ECE 111, Fall 2017

Introduction to ECE: Tools

Section 1: Tuesday & Thursday, 900-950, KEC 1003
Section 2: Tuesday & Thursday, 1000-1050, KEC 1001
Section 3: Tuesday & Thursday, 1100-1150, KEC 1001

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Office Hours: Listed on my OSU Website
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This syllabus is the original plan of the course. Plans can change through the course of the term, and changes will be sent out to the class email list. Check your ENGR email account daily.

Course Description: ECE 111 is an introduction to tools available at OSU and EECS. This class will also give students enough exposure to ECE to introduce what they will be learning during their education at OSU and what opportunities will be available to them once they finish their degree at OSU. Projects produced by engineers have a large impact on the people, economy, and environment of the world, and this class shows the possibilities that the ECE program provides. This course should help you decide if engineering is right for you, and if you are right for engineering.

Prerequisite(s): None.

Course Objectives:
At the completion of this course, students will be able to:

1. Apply basic engineering methodology to solve problems (ABET Outcomes: A, k, o)
2. Design and implement a solution to a student-defined problem in the context of engineering design (ABET Outcomes: a, b, c, e, k, o, q)
3. Explain the history of electrical and computer engineering, and other engineering majors, as it relates to the societal impacts of innovations and design choices (ABET Outcomes: d, f, H, I, j)
4. Utilize a microcontroller to implement an engineering design (ABET Outcomes: a, c, e, K, m, o, q)
5. Identify at least one company that hires engineers in the student’s specific sub-discipline of interest (ABET Outcomes: f, h, j)
6. Identify tools and techniques that will assist them to succeed better in their engineering education (ABET Outcomes: a, i, K, l)

Grade Distribution:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labs</td>
<td>40%</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>In-class Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Programming Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Final Report</td>
<td>15%</td>
</tr>
</tbody>
</table>

Letter Grade Distribution:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>72.50 - 76.50</td>
<td>C</td>
</tr>
<tr>
<td>69.50 - 72.50</td>
<td>C-</td>
</tr>
<tr>
<td>66.50 - 69.50</td>
<td>D+</td>
</tr>
<tr>
<td>62.50 - 66.50</td>
<td>D</td>
</tr>
<tr>
<td>59.50 - 62.50</td>
<td>D-</td>
</tr>
<tr>
<td>&lt; 59.50</td>
<td>F</td>
</tr>
</tbody>
</table>

Course grades can be curved up based on class attendance, participation in lecture or office hours, or helping others with posts on the lab forum. Grades will not be curved down, everyone in the course can earn an A.

Course Policies:

- **General**
  - Laptops, phones, campus newspapers or other distractions are not to be used during lecture, for reasons stated in this article. Tablets or other flat laying computers will be allowed for note taking purposes in a selected area of the lecture room. Participate in class, take notes, engage in your learning and the lecture minutes will go by quickly.
  - You are responsible for preparing for each lecture and reviewing your notes after each lecture. It’s your responsibility to contact a classmate to get notes if you miss a lecture.
  - **Use lecture time efficiently.** What do you remember 2 hours after the lecture? What will you remember 2 years after the course? What will you use 20 years after you finish OSU? Work hard during lecture and learn some useful skills that will benefit your future.

- **Grades**
  - Grades in the C range represent performance that meets expectations; Grades in the B range represent performance that is substantially better than the expectations; Grades in the A range represent work that is excellent. You are not entitled to an A, but preparation, hard work, and maturity can help you earn a good grade in this course.
  - Grades will be maintained in the Blackboard. Students are responsible for tracking their progress by referring to the online gradebook. Grading concerns should be brought to the instructors attention within a week of the grade being posted onto Blackboard.

- **Labs and Assignments**
  - Students are expected to work independently, unless specified to submit work in groups. Cheating, fabrication, assisting, tampering, and plagiarism are all forms of academic
dishonesty and will be penalized according to the Student Conduct and Community Standards. Here is the process for dealing with academic dishonesty, and here are the forms. Discussion amongst students is encouraged, but when in doubt, direct your questions to the professor, tutor, or lab assistant.

– **No late assignments will be accepted under any circumstances.** Homework assignments can be submitted several days before the due date, but assignments submitted through CANVAS will not be accepted even one second late. Assignments can be submitted multiple times, and only the most recent assignment will be graded, even though the grader can see all of your submissions.

• **Attendance and Absences**

  – Attendance is required. Attendance will not be taken, but you are responsible for all content discussed in lecture. In-class assignments might be held during lecture without prior announcement.

  – Students are responsible for all missed work, regardless of the reason for absence. It is also the absentee’s responsibility to get all missing notes or materials.