

EGN 1935: ADVENTURES IN ECE DESIGN

Fall 2017



Catalog Data: ECE Adventures. Credits: 2.

Times and locations: Class

When: T/R – Period 8-9

Where: Lar 239

Lab

When: T or R – Period 8-9

NOTE: Day depends on group number

Where: (Neb 251) - WECE Maker Garage

Description: Students get a closer look into some of the prominent fields of ECE applications such as biomedical, energy, audio, and computers through lectures by experienced students and professors within the department. They will also get hands-on experience through labs that will include an element the students must design themselves. The course meets once a week so the class will either be a lecture or a lab as laid out in the weekly schedule below. Grades are based on attendance and class participation. No exams.

Textbook: None

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Supervisor: **Dr. Harris** (Chair of ECE department)

Goals: Students will learn about applications of Electrical and Computer Engineering in the various fields in industry and will gain some experience in designing these applications. Students will be exposed to ECE applications in the fields of biomedicine, energy, computers, and audio.

Prerequisites: None

Topics:

1. Introduction to Circuits
2. Energy/Power
 - Electromagnetics
3. Computers
 - Solid State
4. Biomedicine
5. Audio

Grading Policy

Attendance – 35%

- This course requirement is met by simply coming to the class periods. You are allowed to miss 2 classes throughout the semester without penalty.

In Class Assignments – 15%

- Grading is based on completion, not correctness. Though understanding some of these concepts now may help you in the future.

Lab Reports – 35%

- Grading is based on completion. Do your best, understanding some of these concepts now may help you in future courses.

Surveys – 15%

- These are given at the end of each module. This is an opportunity to give your opinion about the course as we go. These are anonymous, we grade based on the fact that canvas shows you have a submission.

Grading scale:

90 – 100: A
88 – 89: A-
85 – 87: B+
80 – 84: B
78 – 79: B-
75 – 77: C+
70 – 74: C
68 – 69: C-
65 – 67: D+
60 – 64: D
58 – 59: D-
<= 57: E