

EGN 1935: ADVENTURES IN ECE DESIGN

Fall 2018



Catalog Data: ECE Adventures. Credits: 2.

Times and locations: Class

When: M – Period 8-9

Where: MAT0117

Lab

There will be 2-3 lab sections

When:

(1) M – Period 8-9

(2) TBD

(3) TBD

Where: (LAR320)

Description:

Bi-weekly lectures and labs:

The course meets once a week, so the class will either be a lecture or a lab as laid out in the weekly schedule. Grades are based on attendance and class participation. **No exams!!!**

Lectures:

Students get a closer look into some of the prominent fields of ECE applications such as biomedical, energy, audio, and computers by experienced students and professors within the department. Labs:

Labs:

Students will also get hands-on experience through labs that will include an element the students must design themselves.

Textbook:

None

Contact:

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Office Hours

When: By Appointment

Where: NEB 213

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. Signals (Audio)
5. Bioelectrical

Grading Policy

Attendance – 30%

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

Lab Reports – 30%

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

Surveys – 10%

- 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.

In-class Assignments – 15%

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

Student Organizations – 15%

- You will be required to attend 2 student organization events throughout the semester (HKN, IEEE, WECE).
- They will be introduced during our first lecture.

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

Schedule

NOTE: Subject to change, primarily in the event of a hurricane

Lecture #	Date	Holiday		Location
1	27-Aug		Intro Lecture	MAT117
1	3-Sep	Labor Day	No Class	MAT117
2	10-Sep		Circuitis Lecture/Lab	MAT117
3	17-Sep		Energy Lecture	MAT117
4	24-Sep		Energy Lab	LAR320
5	1-Oct		Computer Lecture	MAT117
6	8-Oct		Computer Lab	LAR320
7	15-Oct		Signals Lecture	MAT117
8	22-Oct		Signals Lab	LAR320
9	29-Oct		Bioelectrical Lecture	MAT117
10	5-Nov		Bioelectrical Lab	LAR320
10	12-Nov	Veterans Day	No Class	MAT117
10	19-Nov	Thanksgiving	No Class	MAT117
11	26-Nov		Final Lecture	MAT117
11	3-Dec	Class ends on Wednesday		MAT117