Adventures in ECE

EGN 1935

Class Periods: Lecture: Monday Periods 8-9 (All Sections)
Lab: Monday Period 8-9 (Section 13798)
Lab: Monday Period 10-11 (Section 13799)
Location: Lecture: ROG 129
Lab: NEB 211
Academic Term: Spring 2020

Instructor:
Colin Adema
cadema@ufl.edu
813-528-0355
Office Hours: By Appointment

Teaching Assistant/Peer Mentor/Supervised Teaching Student:
Please contact through the Canvas website
- Sarah Cratem: scratem@ufl.edu

Course 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.

Course Pre-Requisites / Co-Requisites
None

Course Objectives
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.

Materials and Supply Fees
None

Professional Component (ABET):
None

Required Textbooks and Software
None

Recommended Materials
None

Course Schedule (Subject to Change Due External Forces)

Date	Week	Topic	Location
6-Jan	1	Intro Lecture	ROG 129
13-Jan	2	Circuits Lecture/Student Orgs	ROG 129
20-Jan	3	Holiday – No Class	N/A
27-Jan	4	Circuits Lab	NEB 211
3-Feb	5	Energy Lecture	ROG 129
10-Feb	6	Energy Lab	NEB 211
17-Feb	7	Signals Lecture	ROG 129
24-Feb	8	Signals Lab 1 – Audio	NEB 211
2-Mar	9	Spring Break – No class	N/A
9-Mar	10	Signals Lab 2 – EKG	NEB 211
16-Mar	11	Computer Lecture	ROG 129
23-Mar	12	Computer Lab	NEB 211
30-Mar	13	System Design Lecture	ROG 129
6-Apr	14	Debugging Lecture	ROG 129
13-Apr	15	Extra Day	ROG 129
20-Apr	16 (Last day of classes)	Last Lecture	ROG 129

Attendance Policy, Class Expectations, and Make-Up Policy

Attendance is required. You are allowed to miss 2 classes through the semester without penalty. You are expected to pay attention during lecture and try your hardest on the worksheets and labs. You will not be penalized for being unable to finish your labs in the allotted time as long as genuine effort was put in. The homework assignments will be graded on completion, though understanding the concepts and putting in effort. For labs and homeworks turned in late, there will be a 10% deduction in grade for every day after the assigned due date.

Excused absences must be consistent with university policies in the undergraduate catalog (https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx) and require appropriate documentation.

Evaluation of Grades

Assignment	Total Points	Percentage of Final Grade
Attendance	1 each	30%
Labs	10 each	30%
Surveys	1 each	10%
Homework (4)	10 each	15%
Student Org Events	10 each	15%
		100%

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 Policy

Percent	Grade	Grade Points
90 - 100	A	4.00
88 – 89.9	A-	3.67
85 - 87.9	B+	3.33
80 – 84.9	B	3.00
78 – 79.9	B-	2.67
75 - 77.9	C+	2.33
70 – 74.9	C	2.00
68 – 69.9	C-	1.67
65 – 67.9	D+	1.33
60 - 64.9	D	1.00
68 – 59.9	D-	0.67
0 – 67.9	E	0.00

More information on UF grading policy may be found at:
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Students Requiring Accommodations
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352392-8565, https://www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation
Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their

Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

University Honesty Policy
UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Commitment to a Safe and Inclusive Learning Environment
The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:
• Your academic advisor or Graduate Program Coordinator
• Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.ufl.edu
• Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
• Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@eng.ufl.edu

Software Use
All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy
There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: https://registrar.ufl.edu/ferpa.html

Campus Resources:

Health and Wellness

U Matter, We Care:
Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: http://www.counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Discrimination, Harassment, Assault, or Violence
If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the **Office of Title IX Compliance**, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

Sexual Assault Recovery Services (SARS) Student
Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical suppor*t*, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus*:* https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

On-Line Students Complaints*:* http://www.distance.ufl.edu/student-complaint-process.