

**UNIVERSITY OF HOUSTON**  
**DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING**  
**ECE 3155 Electronics Laboratory**  
**Spring 2025**

**Section (Class Number): 11927**

**Class time and place:** This class does not have a regular meeting time or place. The Electronics Laboratory is located in Rooms 383-D and 385-D (Engineering Building 1, 4226 Martin Luther King Blvd.)

**Instructor: Dr. Dave Shattuck**

**Office Room:** N336-D (4226 Martin Luther King Blvd.)

**Office Phone:** (713) 743-4422 **Mobile:** (713) 498-6888

**E-mail:** [shattuck@uh.edu](mailto:shattuck@uh.edu) or [dshattuc@central.uh.edu](mailto:dshattuc@central.uh.edu) (Both of these email addresses go to the same email inbox. Use either one.)

**Office Hours:** 2-3:30pm, Tuesdays and Thursdays, in Room S385-D.

11:00am to noon, Tuesdays and Thursdays, in Room N336-D.

You make an appointment for other times by sending an email to the address above. When requesting an appointment, please suggest a time and date. I will respond with acknowledgement, or a suggestion for an appropriate alternative.

**Course web site:** [https://courses.egr.uh.edu/ECE/ECE3355/ECE3155\\_Materials/](https://courses.egr.uh.edu/ECE/ECE3355/ECE3155_Materials/)

**Prerequisites:** 1. ECE 2100  
2. ENGI 2304

**Credit for or concurrent enrollment requisite:** 1. ECE 3355 Electronics

Waivers of these requisites are possible only through a Waiver of Prerequisites form submitted to the Electrical and Computer Engineering Department, available on the web at:  
<https://www.ece.uh.edu/undergraduate/advising-forms/prerequisite>

**Catalog Course Description:**

ECE 3155 Electronics Laboratory

Credit Hours: 1.0

Lecture Contact Hours: 0 Lab Contact Hours: 4

Prerequisite: ECE 2100 and ENGI 2304 and credit for or concurrent enrollment in ECE 3355.

Description:

Laboratory projects concerning topics studied in electronics

**Expected Course Outcomes**

Students who successfully complete these courses are expected to meet the following course outcomes.

- Students will further develop their basic skills of problem solving and critical thinking by learning electronics concepts and techniques such as the plotting of Bode plots. They will apply this knowledge of mathematics, science and engineering to efficiently solve electronics problems. (ABET outcome 1)
- Students will add to their knowledge-base in the fundamentals of electrical engineering, especially in the area of electronics, in part by gaining a greater understanding of key engineering concepts, such as amplifier behavior and feedback. Students will use this knowledge and understanding to solve electronics problems such as those that come up in electrical engineering. (ABET outcome 1)
- Students will demonstrate an appropriate level of attention to detail and the use of clear, appropriate notation, which will facilitate their ability to communicate effectively with technical colleagues. (ABET outcome 3)
- Students will develop a sense of the need to engage in life-long learning by examining the dynamic nature of modern electronics devices, and show their ability to engage in life-long learning by applying fundamental concepts to new devices. (ABET outcome 7)

***E-mail Policy and Information:***

The instructor will send some kinds of information by email, through Canvas. You are encouraged to check your email frequently to make sure that receive these messages.

***Parts of the Course:***

There are three parts to the course. These parts are described here.

1. Laboratory Experiments. There are six laboratory experiments that you are to complete. The due dates are given in Canvas, and you will submit your reports through Canvas. You may work on these experiments alone, or with one classmate. Each student submits their own individual report, with their own answers to the questions posed. The experiments are available on Canvas and on the course web page.
2. Technical Report. A detailed report on one particular topic will be required. This semester, that topic will be a portion of the first experiment on frequency response. A separate document describing the Technical Report will be provided.
3. Team Project. Every student will be part of a team with four or five members. The team will build a project to meet specifications agreed upon with the instructor. Near the end of the semester, there will be an opportunity to present the project, and turn in documentation for the project. While there will be one set of documentation submitted for the project by the team, each team member will submit an individual assessment of the contribution of the team members. A separate document describing the Team Project will be provided.

### **Grading Policy**

Grades will be determined on the basis of performance on the regular exams and quizzes, the final exam, and laboratory work (see below), with the following approximate weights. The weights will be fixed at the end of the semester.

Experiment Reports	20-40%
Technical Report	20-40%
Team Project	20-40%

The following approximate grading scheme will be used to determine your grade. Note that grades will not be "curved", but instead have been previously determined by numerical average. While this scale may be modified somewhat, this listing gives a general idea of how well you are doing in the course. The final grade scale will be determined at the end of the semester.

90.00 - 100:	A's
78.00 - 89.99:	B's
66.00 - 77.99:	C's
54.00 - 65.99:	D's
Below 54.00:	F

### ***Grade Posting***

Grades will be available using Canvas, available on the web at through AccessUH. Normally, grades are available about one week after the final exam. The instructor is not allowed to give out grades over the phone or by email.

### ***Lecture Information***

There is a separate lecture course, ECE 3355, which should be taken at the same time as this course, unless you have already completed it satisfactorily.

### Mental Health and Wellness Resources

The University of Houston has a number of resources to support students' mental health and overall wellness, including [CoogsCARE](#) and the [UH Go App](#). UH [Counseling and Psychological Services \(CAPS\)](#) offers 24/7 mental health support for all students, addressing various concerns like stress, college adjustment and sadness. CAPS provides individual and couples counseling, group therapy, workshops and connections to other support services on and off-campus. For assistance visit [uh.edu/caps](http://uh.edu/caps), call 713-743-5454, or visit a [Let's Talk](#) location in-person or virtually. [Let's Talk](#) are daily, informal confidential consultations with CAPS therapists where no appointment or paperwork is needed.

### Need Support Now?

**If you or someone you know is struggling or in crisis, help is available. Call CAPS crisis support 24/7 at 713-743-5454, or the National Suicide and Crisis Lifeline: call or text [988](tel:988), or chat [988lifeline.org](https://988lifeline.org).**

### Title IX/Sexual Misconduct

Per the UHS Sexual Misconduct Policy, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and state law and must report incidents of sexual misconduct (sexual harassment, non-consensual sexual contact, sexual assault, sexual exploitation, sexual intimidation, intimate partner violence, or stalking) about which they become aware to the Title IX office. Please know there are places on campus where you can make a report in confidence. You can find more information about resources on the Title IX website at <https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/>.

### Reasonable Academic Adjustments/Auxiliary Aids

The University of Houston is committed to providing an academic environment and educational programs that are accessible for its students. Any student with a disability who is experiencing barriers to learning, assessment or participation is encouraged to contact the Justin Dart, Jr. Student Accessibility Center (Dart Center) to learn more about academic accommodations and support that may be available to them. Students seeking academic accommodations will need to register with the Dart Center as soon as possible to ensure timely implementation of approved accommodations. Please contact the Dart Center by visiting the website: <https://uh.edu/accessibility/> calling (713) 743-5400, or emailing [jdcenter@Central.UH.EDU](mailto:jdcenter@Central.UH.EDU).

The [Student Health Center](#) offers a Psychiatry Clinic for enrolled UH students. Call 713-743-5149 during clinic hours, Monday through Friday 8 a.m. - 4:30 p.m. to schedule an appointment.

The [A.D. Bruce Religion Center](#) offers spiritual support and a variety of programs centered on well-being.

The [Center for Student Advocacy and Community \(CSAC\)](#) is where you can go if you need help but don't know where to start. CSAC is a “home away from home” and serves as a [resource hub](#) to help you get the resources needed to support academic and personal success. Through our [Cougar Cupboard](#), all students can get up to 30 lbs.

of FREE groceries a week. Additionally, we provide 1:1 appointments to get you connected to on- and off-campus resources related to essential needs, safety and advocacy, and more. The [Cougar Closet](#) is a registered student organization advised by our office and offers free clothes to students so that all Coogs can feel good in their fit. We also host a series of cultural and community-based events that fosters social connection and helps the cougar community come closer together. Visit the CSAC homepage or follow us on Instagram: @uh\_CSAC and @uhcupbrd. YOU belong here.

### Women and Gender Resource Center

The mission of the [WGRC](#) is to advance the University of Houston and promote the success of all students, faculty, and staff through educating, empowering, and supporting the UH community. The WGRC suite is open to you. Stop by the office for a study space, to take a break, grab a snack, or check out one of the WGRC programs or resources. Stop by Student Center South room B12 (Basement floor near Starbucks and down the hall from Creation Station) from 9 am to 5 pm Monday through Friday.

### Academic Honesty Policy

High ethical standards are critical to the integrity of any institution, and bear directly on the ultimate value of conferred degrees. All UH community members are expected to contribute to an atmosphere of the highest possible ethical standards. Maintaining such an atmosphere requires that any instances of academic dishonesty be recognized and addressed. The [UH Academic Honesty Policy](#) is designed to handle those instances with fairness to all parties involved: the students, the instructors, and the University itself. All students and faculty of the University of Houston are responsible for being familiar with this policy.

### Excused Absence Policy

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](#) and [Graduate Excused Absence Policy](#) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to [military service](#), [religious holy days](#), [pregnancy and related conditions](#), and [disability](#).

### Recording of Class

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor.

If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](#). If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with anyone without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

#### UH Email

Please check and use your CougarNet email for communications related to this course. Faculty use the CougarNet email to respond to course-related inquiries such as grade queries or progress reports for reasons of FERPA. To access your CougarNet email, [login](#) to your Microsoft 365 account with your CougarNet credentials. Visit [University Information Technology \(UIT\)](#) for instructions on how to connect your CougarNet e-mail on a mobile device.

#### Security Escorts and Cougar Ride

UHPD continually works with the University community to make the campus a safe place to learn, work, and live. The security escort service is designed for the community members who have safety concerns and would like to have a Security Officer walk with them, for their safety, as they make their way across campus. Based on availability either a UHPD Security Officer or Police Officer will escort students, faculty, and staff to locations beginning and ending on campus. If you feel that you need a Security Officer to walk with you for your safety, please call [713-743-3333](#). Arrangements may be made for special needs.

Parking and Transportation Services also offers a late-night, on-demand shuttle service called "Cougar Ride" that provides rides to and from all on-campus shuttle stops, as well as the MD Anderson Library, Cougar Village/Moody Towers and the UH Technology Bridge. Rides can be requested through the UH Go app. Days and hours of operation can be found at <https://uh.edu/af-university-services/parking/cougar-ride/>.

#### Syllabus Changes

Please note that the instructor may need to make modifications to the course syllabus. Notice of such changes will be announced as quickly as possible through email sent to the class.