ECE4371Syllabus

Antenna Engineering Lab, Autumn 2026

Unscheduled, Van Leer E365

Class page: https://canvas.gatech.edu

Mode: In person

Instructor Information

Instructor Prof. Nima Ghalichechian	**Email** nima.1@gatech.edu	**Office Hours & Location** Use ECE4370 Office hours
Teaching Assistant(s) TBD	**Email** TBD	**Office Hours & Location** By email

General Information

Description

This laboratory-based course provides students concurrently taking ECE 4370 Antenna Engineering an experimental and practical understanding of antennas and their properties

Pre- &/or Co-Requisites

ECE4370 Antenna Engineering (corequisites); ECE 3025 Introduction to Electromagnetics (prerequisites). Basic understanding of the theory of electromagnetisms including Maxwell's equations, electrostatics, plane waves, and transmission lines is required.

Course Goals and Learning Outcomes

1. Develop a deeper understanding of antennas including impedance matching and radiation pattern.
2. Design, analyze, simulate, implement, and evaluate antennas.
3. Use engineering techniques, skills, and tools, including software-based methods.
4. Develop basic skills in writing laboratory reports and other documentation.

Course Requirements & Grading

Assignment	Date/Frequency	Weight	Notes
Lab Assignments	Biweekly (~6 assignments)	65%	(No lab during week 1)
Final Project	-	35%	

Description of Graded Components

Expect approximately 6 laboratory assignments with write-ups or reports due during the semester. A final design project will be assigned midway through the term and may involve group work.

For all assignments and projects, late work is not accepted. Special accommodations can be made for medical emergencies, interviewing, and other important events, but only if sufficient advance notice is given to (and permission granted by) the instructor ahead of time.

Grading Scale

Your final grade will be assigned as a letter grade according to the following scale.

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	0-59%

Course Materials

LabVolt Manual Antenna Fundamentals (provided by GT)

Contacting me

Please contact me if you can't attend the office hour but you want to meet me. Also contact me for any other issue. I typically respond within 24 hours (nima.1@osu.edu). My office is in TSRB room # 534. We can also schedule a virtual meeting if you prefer.

Collaboration & Group Work

Students are encouraged to work together with one lab partner.

Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. For information on Georgia Tech's Academic Honor Code, please visit http://www.catalog.gatech.edu/policies/honor-code/ or http://www.catalog.gatech.edu/rules/18/.

Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations. Violating Georgia Tech's Academic Honor Code may result in the grade of zero for the assignment.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or http://disabilityservices.gatech.edu/, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement

At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See http://www.catalog.gatech.edu/rules/22/ for an articulation of some basic expectation that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Information Related to Covid-19

Students are expected to be familiar with and abide by the Institute guidelines, information, and updates related to Covid-19. Find campus operational updates, Frequently Asked Questions, and details on campus surveillance testing and vaccine appointments on the Tech Moving Forward site.