

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING
GEORGIA INSTITUTE OF TECHNOLOGY
ECE 2026: INTRODUCTION TO SIGNAL PROCESSING
SUMMER 2022
MON WED 3:30-4:45 PM

PREREQUISITE: (MATH 1502 or MATH 1512) and CS 1371 (programming experience is essential)

COURSE OBJECTIVE:

To investigate signal processing for discrete-time systems: sampling, filtering, Fourier and Z transforms.

OFFICIAL TEXT:

DSP First, 2nd Edition, McClellan, Schafer & Yoder, Pearson, ISBN-10: 0136019250, ISBN-13: 9780136019251.

MATLAB student version (<https://www.mathworks.com/products/matlab/student.html>)

INSTRUCTOR:

John R. Barry, barry@ece.gatech.edu
5136 Centergy, 404-894-1705
Office Hours: after lecture, or by appointment

RECITATION INSTRUCTORS:

L01: Chenghao Duan, cduan8@gatech.edu
L02: Ismail Sadiq, ismail.sadiq@gatech.edu

GRA:

Ceren Fitoz, cerenfitoz@gatech.edu

UTA's:

Andrew Ionascu, aionascu3@gatech.edu
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WEBSITE:

For all lectures and handouts: <http://barry.ece.gatech.edu/2026>

PIAZZA:

For all discussions: <https://piazza.com/class/130brpmsbrrrb>

HONOR CODE:

You are expected to uphold the honor code (<http://osi.gatech.edu/content/honor-code>). All violations will be referred to the Dean of Students for investigation and penalties. Past infractions have included cheating on tests, copying lab results, copying homeworks, and forging TA signatures.

RECITATIONS:

Recitations will meet every Tuesday, in Van Leer E361, where we will work sample problems and discuss concepts from lecture.

LABORATORY:

The labs will meet every Thursday, in Klaus 2440, where we will explore hands-on applications of the course concepts using MATLAB.

HOMEWORK:

Written homework will be assigned weekly, the due date for submission uploads to canvas will be Fridays 8pm. Solutions will be posted immediately. The lowest homework score will be dropped.

OFFICE HOURS:

At this time of writing, times and locations for office hours are still being worked out; this information will be posted on the class website <http://barry.ece.gatech.edu/2026>.

GRADING:	Recitation	5%
	Homework	20%
	Labs (mandatory to avoid grade F)	10%
	Quiz 1 (Wed June 15)	20%
	Quiz 2 (Mon July 18)	20%
	Final Exam (Fri July 29, 2:40–5:30pm)	25%

