



Be The Difference.

EECE 4510/5510 – Digital Signal Processing

Fred J. Frigo, Ph.D.

Fall 2019

Summary:

Introduction to the theory and practice of discrete-time signals and systems. Concepts covered include: Fourier Transforms, Z-transforms, linear time invariant system analysis in the time and frequency domains, sampling theory and Discrete Fourier Transforms. Application of these concepts includes: digital filter design techniques and the use of Fast Fourier Transforms for efficient frequency domain analysis. Labs and design projects related to specific signal processing applications are used to illustrate the material, including topics such as audio and image processing.

Location & Schedule:

Class meets Tuesdays & Thursdays: 5:30pm-6:45pm
Haggerty Engineering Hall - Room TBD

Midterm Exam: Thursday, October 17, 2019

Final Exam: Tuesday, December 10, 2019 5:45pm-7:45pm

No class – Thanksgiving Day – Thursday, November 28, 2019

Grading:

Homework and Projects: 60%

Mid-term exam: 20%

Final exam: 20%

Required Text:

Title: Introduction to Digital Signal Processing, 1st edition

Authors: Dick Blandford, John Parr

ISBN-10: 0131394061

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Office Hours:

By appointment – Haggerty Hall – Room 235

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