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EECE 4510/5510 – Digital Signal Processing
Fred J. Frigo, Ph.D.
Fall 2016

Summary:
Mathematical descriptions of discrete-time signals and systems are presented using block diagrams, signal flow graphs, and difference equations. The sampling and reconstruction of continuous-time signals is presented. Frequency analysis techniques are covered, including the z-transform, the Discrete Fourier Transform, and the Fast Fourier Transform. Simple digital filter design examples are presented.

Location & Schedule:
Class meets Mondays & Wednesdays: 4:00pm-5:45pm
Haggerty Engineering Hall - Room 170

Midterm Exam: Wednesday, October 19, 2016 4:00pm
Final Exam: Monday, December 12, 2016 3:30pm-5:30pm

No Class: Monday, September 5, 2016 (Labor Day)
No Class: Wednesday, November 23, 2016 (Thanksgiving)

Grading:
Homework and Projects: 60%
Mid-term exam: 20%
Final exam: 20%

Required Text:
Discrete-Time Signal Processing, 3rd Edition
By Alan V. Oppenheim and Ronald W. Schafer
ISBN-10: 0-13-198842-5
ISBN-13: 978-0-13-198842-2
Published by Prentice Hall © 2010

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