EECE 4510/5510 – Digital Signal Processing
Fred J. Frigo, Ph.D.
Fall 2010

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 Tuesdays & Thursdays: 5:30pm-6:45pm
Haggerty Engineering Hall - Room 170

Midterm Exam: Tuesday, October 19, 2010
Final Exam: Tuesday, December 14, 2010 5:45pm-7:45pm

No class – Midterm Break – Thursday, October 21, 2010
No class – Thanksgiving Day – Thursday, November 25, 2010

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
Published by Prentice Hall © 2010

Office Hours:
By appointment – Haggerty Hall – Room 283

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