



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. Schaffer

ISBN-10: 0-13-198842-5

ISBN-13: 978-0-13-198842-2

Published by Prentice Hall © 2010

Office Hours:

By appointment – Haggerty Hall – Room 283

Contact Info:

Email: Frederick.Frigo@marquette.edu or
Fred.Frigo@med.ge.com

Office: (262)-521-6104