

Biophysics 240: Fourier Transforms

Fall Semester 2007

Daniel B. Rowe, Ph.D.

Text: DB. Rowe, The Fourier Transform: A Technical Understanding with Applications to MRI. (Book manuscript)

August	21 Administrative/Math Review
	23 Math Review
	28 Familiarize Matlab
	30 Fourier Series
September	04 Fourier Series/Continuous Fourier Transform
	06 Continuous Fourier Transform
	11 Specific FT Pairs
	13 Specific FT Pairs/Continuous FT Properties
	18 Continuous FT Properties
	20 Review
	25 Exam I
	27 Return Exam I/Continuous FT Properties
October	02 Continuous FT Properties
	04 Continuous FT Properties
	09 Continuous FT Properties
	11 Discrete Fourier Transform
	16 Discrete Fourier Transform
	18 Discrete Fourier Transform
	23 Discrete FT Properties
	25 Discrete FT Properties
	30 Discrete FT Properties
November	01 Review
	06 Exam II
	08 Return Exam II/Signal/Image Processing
	13 Signal/Image Processing
	15 Signal/Image Processing
	20 Signal/Image Processing/FT & MRI
	22 Thanksgiving
	27 FT & MRI
	29 FT & MRI
December	04 Statistics: Random Variables
	06 Statistics: Random Variables
	11 Statistics: Regression
	13 Statistics: t-statistics
	18 Review
	21 Final Exam

Grading System: Exams each 30% Final 40%.