

Biophysics 240: Fourier Transforms
Fall Semester 2003
Daniel B. Rowe, Ph.D.

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

- August 19 Administrative/Math Review
- 21 Math Review
- 26 Class cancelled/Familiarize Matlab
- 28 Class cancelled/Familiarize Matlab
- September 02 Fourier Series
- 04 Continuous Fourier Transform
- 09 Continuous Fourier Transform/Specific FT Pairs
- 11 Specific FT Pairs
- 16 Continuous FT properties
- 18 Continuous FT properties
- 23 Review
- 25 Exam I
- 30 Return Exam I/Continuous FT properties
- October 02 Continuous FT properties
- 07 Continuous FT properties
- 09 Continuous FT properties
- 19 Discrete Fourier Transform
- 16 Discrete Fourier Transform
- 21 Discrete Fourier Transform
- 23 Discrete FT properties

28 Discrete FT properties

30 Discrete FT properties

November 04 Review

06 Exam II

11 Return Exam II/Signal/Image Processing

13 Signal/Image Processing

18 Signal/Image Processing

20 Signal/Image Processing

25 Signal/Image Processing/FT & MRI

27 Thanksgiving

December 02 FT & MRI

04 FT & MRI Conclusions

09 Review

11 Final Exam

Grading System: Exams each 30% Final 40%.