

Physics 413
Introduction to Biophysics
MWF 11:00
Spring 2006

Instructor: Dr. Joel Mobley
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Office Hours: Tuesday 10:00-12:00
Physics Tutoring Room, Lewis Hall
Thursday 10:00-12:00
Kennon Observatory, Room 1
By appointment at 1025 NCPA
The best times are M,W,Th, & F, 1:30-5:00

Final Exam: Wednesday, May 10, 12:00

Textbook: **Biological Physics: Energy, Information, Life**
Philip Nelson, W.H. Freeman and Company

References: **Biophysics** by Roland Glaser
Biophysics, An Introduction by Rodney Cotterill
Biological Thermodynamics by Donald T. Haynie
Physics in Biology and Medicine by Paul Davidovits

Content: For most of the class we will follow the textbook which systematically introduces basic physical concepts necessary for the understanding of the role of physics in life processes. This includes the first 8 chapters of Nelson. We will also cover selected parts of Chapters 9-12

Towards the end of the semester, we will discuss the propagation of light and ultrasonic waves in human tissues.

Grading
25 % each 2 Midterm Exams, Final Exam
15 % total Homework
10 % Class Project