

List of Lectures PHY 315 Spring 2012

Lecture #1, Tuesday, January 17 th ,	Introductory Lecture In Biological and Medical Physics (reading materials Chapter 1 & Chapter 2)
Lecture #2, Thursday, January 19 th ,	Water Is a Major Requirement for Biological Systems (Chapter 4)
Lecture #3, Tuesday, January 24 th ,	Water Is a Major Requirement for Biological Systems II (Chapter 4)
Lecture #4, Thursday, January 26 th ,	Well-defined Structures Are Specific to Biological Systems (Chapter 5)
Lecture #5, Tuesday, January 31 st ,	Structures II (Chapter 5)
Lecture #6, Thursday, February 2 nd ,	Structures III (Chapter 5)
Lecture #7, Tuesday, February 7 th ,	Supramolecular structures I (Chapter 6)
Lecture #8, Thursday, February 9 th ,	Supramolecular structures II (Chapter 6)
Lecture #9, Tuesday, February 14 th ,	The cell: physical sketch (Chapter 7)
Lecture #10, Thursday, February 16 th ,	Light and Life I (Chapter 9)
Lecture #11, Tuesday, February 21 st ,	Light and Life II (Chapter 9)
Lecture #12, Thursday, February 23 rd ,	Ultraviolet Effects on Biological Systems I (Chapter 11)
Lecture #13, Tuesday, February 28 th ,	Ultraviolet Effects on Biological Systems II (Chapter 11)
Liviu Movileanu will be at Biophysical meeting in San Diego. Substitute will teach this class	
Lecture #14, Thursday, March 1 th ,	Mechanics and Dynamics I (Chapter 12)
Lecture #15, Tuesday, March 6 th ,	Mechanics and Dynamics II (Chapter 12)
Thursday, March 8 th	Mid-term Examination

Spring Break: Sunday, March 11 - Sunday, March 18

Lecture #16, Tuesday, March 20 nd ,	Reactions: Physical View I (Chapter 15)
Lecture #17, Thursday, March 22 th ,	Reactions: Physical View II (Chapter 15)
Lecture #18, Tuesday, March 27 th ,	Reactions: Physical View III (Chapter 15)
Lecture #19, Thursday, March 29 th ,	Molecular Machines I (Chapter 16)

Lecture #20, Tuesday, April 3 rd ,	Molecular Machines II (Chapter 16)
Lecture #21, Thursday, April 5 th ,	Molecular Machines III (Chapter 16)
Lecture #22, Tuesday, April 10 th ,	Introductory lecture in medical physics: fiber optics and endoscopy and ultrasonic imaging; MRI
Lecture #23, Thursday, April 12 th ,	Lasers in medicine: healing with light - Part I
Lecture #24, Tuesday, April 17 th ,	Lasers in medicine: healing with light - Part II
Lecture #25, Thursday, April 19 th , Liviu Movileanu will be at Boston. Substitute will teach the class	X-ray and computed tomography (CT scans)
Lecture #26, Tuesday, April 24 th ,	Nuclear medicine - Images from radioactivity - Part I
Lecture#27, Thursday, April 26 th ,	Nuclear medicine - Images from radioactivity - Part II
Lecture #28, Tuesday, May 1 st ,	Review lecture for the final exam

Final Exam: Thursday, May 3rd, 5:15 - 7:15 P.M., Room 104N, Physics Bldg.