

Physics 318 - Biophysics and Medical Imaging

Tentative Topics and Course Schedule

Version 3.0

Week of	Monday	Tuesday	Wednesday	Thursday	Friday
Jan 11	<i>Classes Start</i>	Introduction: Ideal Imaging Device...		Chapter 2 Assign Chap 2: Odd	
Jan 18	MLK Jr. Day No School	Chapter 3 Assign Chap 3: Odd	ASSIGNMENTS ARE DUE THE FOLLOWING CLASS PERIOD.	Chapter 4 Assign Chap 4: Odd	
Jan 25		Chapter 5 Assign Chap 5: Odd		X-ray Lab 1 Production and Attenuation	
Feb 1		Chapter 6 and 7 Assign Chap 6 & 7: Odd		X-ray Lab 2 Detectors	
Feb 8		Chapter 8 and 9 Assign Chap 8 & 9: Odd		Chapter 10 and 11 Assign Chap 10 & 11: Odd	
Feb 15	No School	Chapter 12 Assign Chap 12: Odd		Exam #1 1-9	
Feb 22		Chapter 13 and 14 Assign Chap 13 & 14: Odd		X-ray Lab 3 Radiographs	
Feb 29		Chapter 15 and 16 Assign Chap 15 & 16: Odd		CT Lab 0 CT Lab 1	
Mar 7		Chapter 17 and 18 Assign Chap 17 & 18: Odd		CT Reconstruction Probability Lab	
Mar 14	No School	No School	No School	No School	No School
Mar 21		Chapter 19 and 20 Assign Chap 19 & 20: Odd		Exam #2 10-18	No School
Mar 28	No School	Sanford Oncology (FT) CT Lab presentations		Ultrasound Lab Production and Attenuation	
Apr 4		Chapter 21 and 22 Assign Chap 21 & 22: Odd		Chapter 23 and 24 Assign Chap 23 & 24: Odd	
Apr 11		Student Academic Conference		MRI Lab Scanning	
Apr 18		Chapter 25 and 26 Assign Chap 25 & 26: Odd		ISI (FT)	
Apr 25		Chapter 27 and 28 Assign Chap 27 & 28: Odd		Chapter 29 and 30 Assign Chap 29 & 30: TBD	
May 2		Review	Study Day		
May 9	Final 11:30 am				

Radiation – Chapters 2 – 7

Imaging – Chapters 1, 10, 11, 16, and 17

Nuclear Imaging – Chapters 8, 9, and 12

X-ray Imaging – Chapters 5, 13 – 15

Visual Imaging – Chapters 17 and 18

Ultrasound – Chapters 19 – 22

MRI – Chapters 23 – 25

Radiobiology – Chapters 7, 26 – 29

Future – Chapter 30