

2011-2012 Physics Core Lectures
VA Radiology and Lasser Conference Rooms, Mondays 7:00 a.m.

	Topic	Chapters	Date	Faculty
1	Introduction and Basic Physics	1, 2	M 10/24	Andre
2	Interaction of Radiation and Matter	3	M 10/31	Andre
3	X-Ray Production	5	M 11/07	Andre
4	Generators	5	M 11/14	Andre
5	Computers	4	M 11/21	Hall
	RSNA Week -- No Lecture		M 11/28	
6	Screen-Film Radiography, Processing	6, 7	M 12/05	Dubowitz
7	Mammography	8	<u>W 12/14</u>	Nelson
8	Image Quality	10	M 12/19	Sinha
	Take Home Exam – No Lectures	1-9	M 12/26	Andre
	Christmas & New Year's Holidays		M 01/02	
9	Image Quality	10	M 01/09	Sinha
	M L King Holiday – No Lecture		M 01/16	
10	Fluoroscopy	9	M 01/23	Dubowitz
11	Digital Radiography, Adjuncts	11, 12	M 01/30	Hall
12	Computed Tomography	13	M 02/06	Andre
13	Computed Tomography	13	M 02/13	Andre
	President's Day Holiday – No Lecture		M 02/20	
14	Nuclear Magnetic Resonance	14	M 02/27	Sinha
15	Magnetic Resonance Imaging	15	M 03/05	Sinha
16	Magnetic Resonance Imaging	15	M 03/12	Sinha
17	Ultrasound	16	M 03/19	Nelson
18	Ultrasound	16	M 03/26	Nelson
19	Networks and PACS	17	M 04/02	Sinha
	Take-Home Exam – No Lecture	10-17	M 04/09	Andre
20	Radioactivity, Nuclear Transformation	18	M 04/16	Huang
21	Radionuclide Production	19	M 04/23	Pichika
22	Radiopharmaceuticals	19	M 04/30	Pichika
23	Radiation Detection and Measurement	20	M 05/07	Huang
24	Scintillation Camera	21	M 05/14	Hoh
25	SPECT and PET	22	M 05/21	Hoh
	Memorial Day Holiday – No Lecture		M 05/28	
26	Radiation Protection	23	M 06/04	Milligan
27	Radiation Dosimetry	24	M 06/11	Milligan
28	Radiation Biology and Risk	25	M 06/18	Milligan
29	Radiation Biology and Risk	25	M 06/25	Milligan
	Take-Home Mock Board Exam		M 07/02	Andre
	Individual Tutoring			Faculty

Textbook: The Essential Physics of Medical Imaging, Bushberg, et al., Philadelphia: Lippincott Williams & Wilkins, 2002, 2nd Edition