

<b>2009-2010 Physics Class Schedule</b>				
		<b>University of Pennsylvania, Philadelphia</b>		
		<b>Location:</b> 2 Donner Conference Room HUP		
<b>Tuesdays</b>		<b>Text:</b> The Physics of Radiation therapy, Khan, 3rd Ed		
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>Instructor</b>	<b>Chapter</b>
7/14/2009	4:00-5:15 PM	Atomic Structure and Electromagnetism	Jarod	1
7/21/2009	4:00-5:15 PM	X-Rays (production, spectra etc), Diagnostic generators	Jarod	3
7/28/2009		No Class - AAPM Meeting		
8/4/2009	4:00-5:15 PM	Grenz, Kilovoltage, orthovoltage X-ray	Jarod	3
8/11/2009	4:00-5:15 PM	Radioactivity	Jarod	2
8/18/2009	4:00-5:15 PM	Radioactivity decays & Nuclear Physics	Jarod	2
8/25/2009	4:00-5:15 PM	Photon Interaction of Radiation with Matter (I)	Ali	5
9/1/2009	4:00-5:15 PM	Photon Interaction of Radiation with Matter (II)	Ali	5
9/8/2009	4:00-5:15 PM	Treatment Machine (Co-60, Betatron, Linac, cyclotron)	Jim	4
9/15/2009	4:00-5:15 PM	Radiation Units, Exposure, Dose, etc.	Jim	6
9/22/2009	4:00-5:15 PM	Radiation Measurements (TLD, Diode, Ionchamber, film etc)	Jim	6-8
9/29/2009	4:00-5:15 PM	Particle Beam (Introduction, Technology)	Jim	*
10/6/2009	4:00-5:15 PM	Particle Beam (Dosimetry & Clinical)	Jim	*
10/13/2009	4:00-5:15 PM	Dosimetric Parameters (BSF, TMR, PDD etc)	Ali	9-13
10/20/2009	4:00-5:15 PM	Treatment Planning (Forward planning)	Ali	9-13
10/27/2009	4:00-5:15 PM	Treatment Planning (IMRT, Rapid Arc)	Stefan	9-13
10/30/2009	7:00 - 8:15 AM	<b>Exam 1 -- FRIDAY</b>		
11/3/2009	4:00-5:15 PM	MU calculations I	Ali	9-13
11/10/2009	4:00-5:15 PM	MU calculations II	Ali	13
11/17/2009	4:00-5:15 PM	Treatment Planning (Matching & Gap Calculation)	Stefan	9-13
11/24/2009	4:00-5:15 PM	Inhomogeneity Corrections (Lung, Bone etc)	Stefan	12
12/1/2009	4:00-5:15 PM	Imaging in radiation Oncology	Tim	*
12/8/2009	4:00-5:15 PM	Electron Beam (interaction, Sp, range etc)	Tim	14
12/15/2009	4:00-5:15 PM	Electron Beam (clinical application)	Tim	14
12/22/2009		No Class - Happy Holidays		
12/29/2009		No Class - Happy NEW YEAR		
1/5/2010	4:00-5:15 PM	Magna Field treatments (TBI, TSEI)	Steve	18

1/12/2010	4:00-5:15 PM	Radiation Safety Regulations & Protection	Keith	16
1/19/2010	4:00-5:15 PM	Radiation Safety Room Shielding	Ali	16
1/26/2010	4:00-5:15 PM	Brachytherapy (LDR)	Carmen	15
2/2/2010	4:00-5:15 PM	Brachytherapy ( HDR)	Elizabeth	15
2/9/2010	4:00-5:15 PM	Intro to Nuclear Medicine and Imaging	Janet	*
2/16/2010	4:00-5:15 PM	MRI physics	Larry	*
2/19/2010	7:00 - 8:15 AM	<b>Exam 2 -- FRIDAY</b>		
TBA	TBA	<b>FINAL QUIZ (Raphex exam)</b>		
		* Class material provided by Instructor		