Syllabus for EE290T/BioE 265, Principles of MRI, Spring 2010

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Lecture	Date	Nishimura Chapter	Topic
1	1/19 Tues,	1	Class organization and intro to MRI
2	Thur,	2	2D convolution, FTs, sampling
3	1/26 Tues,	2	2D convolution, FTs, sampling
4	Thur,	3	MRI Overview
5	2/2 Tues,	3	MRI Overview
6	Thur,	4	NMR Physics
7	2/9 Tues,	5	Imaging Principles
8	Thur,	5	Imaging Principles (k-space)
9	2/16 Tues,	5	Imaging Principles
10	Thur,	-	Imaging Principles: aliasing, FOV, resolution
11	2/23 Tues,	1-5	Imaging principles
12	2/25 Thur,	1-5	Midterm 1
13	3/2 Tues,	6	Selective excitation
14	Thur,	6	Selective excitation
15	3/9 Tues,	7	Imaging imperfections
16	Thur,	7	Imaging with relaxation
17	3/16 Tues,	7	Contrast, noise
18	Thur,	8	3D imaging
19	3/23 Tues,	8-10	Spring Break (24, 26 March)
20	Thur,	8-10	Spring Break (24, 26 March)
21	3/30 Tues,	8	Fast MRI and reconstruction
22	Thur,	9	Spectroscopy
23	4/6 Tues,	6-10	Instrumentation
24	Thur,	–	Instrumentation
25	4/13 Tues,	–	Pulse Sequences
26	Thur,	–	Pulse Sequences
27	4/20 Tues,	–	Scanner Tour
28	Thur,	–	Pulse Sequences
29	4/27 Tues,	–	Pulse Sequences
30	4/29 Thur,	–	Midterm 2
31	5/4 Tues,	–	Guest Lecture
32	Thur,	–	Guest Lecture
33	5/11 Tues,	–	Research Presentations