

## Tentative Physics 489 Schedule

## Fall 2017

Week	Class	Day	Date	Topic	Reading	Homework DUE
1	1	Wed	6-Sep	Course Overview		
	2	Fri	8-Sep	MFT Sample		MFT sample solutions
2	3	Wed	13-Sep	GRE Sample Exam 1		GRE sample Exam 1 solutions
	4	Fri	15-Sep	Advice for MFT and GRE	CP 9 p. 273-285; article	Comments on readings. CP 9 problems.
3	5	Wed	20-Sep	Classical Mechanics I	CP 1 p. 1 - 24	Selected CP 1 problems.
	6	Fri	22-Sep	Classical Mechanics II	CP 1 p. 24 - 58	Selected CP 1 problems.
4	7	Wed	27-Sep	E&M I	CP 2 p. 59 - 81	Selected CP 2 problems.
	8	Fri	29-Sep	Magnetism	CP 2 p. 83 - 98	Selected CP 2 problems.
5	9	Wed	4-Oct	Optics	CP 3 p. 105 - 126	Selected CP 3 problems.
	10	Fri	6-Oct	Thermo and Stat Mech.	CP 4 p. 131 - 152	Selected CP 4 problems.
6	11	Wed	11-Oct	Quantum Mechanics	CP 5 p. 155 - 187	Selected CP 5 problems.
	12	Fri	13-Oct	Atomic Physics	CP 5 p. 187 - 206	Selected CP 5 problems.
7	13	Wed	18-Oct	Relativity	CP 6 p. 217 - 232	Selected CP 6 problems.
	14	Fri	20-Oct	Lab methods	CP 7 p. 235 - 252	Selected CP 7 problems.
8	15	Wed	25-Oct	Special Topics	CP 8 p. 255 - 270	Selected CP 8 problems.
	16	Fri	27-Oct	GRE Sample Exam 2		GRE sample Exam 1 solutions
9	17	Wed	1-Nov	Grad School Options	<a href="#">AIP Graduate Programs</a>	List of Interesting Grad Schools
	18	Fri	3-Nov	<b>MFT</b>		
10	19	Wed	8-Nov	Scientific Presentations	<a href="#">Scientific Presentations: A cheat sheet</a>	Comments on reading
	20	Fri	10-Nov	Presenation to PH190		Physics Journal article and summary.
11	21	Wed	15-Nov	Scientific Literature	<a href="#">How to read a scientific paper</a>	Comments on reading.
	22	Fri	17-Nov	Ethics in Physics	<a href="#">APS Ethics Case Studies</a>	Comments on reading.
12	23	Wed	22-Nov	Resumes and Sci. Lit.		Proposal to evaluate
		Fri	24-Nov	<b>Thanksgiving Break</b>		
13	24	Wed	29-Nov	Scientific Proposals	<a href="#">Elements of the research proposal</a>	Presentation to evaluate
	25	Fri	1-Dec	Presentation to PH190		Presentation to PH190
14	26	Wed	6-Dec	Jobs in Physics	<a href="#">APS Careers in Physics</a>	Comments on readings.
	27	Fri	8-Dec	Proposal Reviews	Last Day of Class	Resume evaluation
		Fri	15-Dec	<b>Presenations</b>	<b>12:15 p.m. - 2:15 p.m.</b>	