PHYS:7729 Plasma Physics II Schedule Spring 2025

Week	Weekly Reading	Class Meeting	Date	Lecture Notes	HW/Exams
1	GB Chap. 4, Sec, 4.1–4.4 (p.87–137)	1	1/21	Lecture #1	
	BS Chap. 6, Sec. 6.1–6.3 (p.197–227)	2	1/23	Lecture #2	
2	GB Chap. 4, Sec. 4.5 (p.137–141)	3	1/28	Lecture #3	
	BS Chap. 11, Sec. 11.1–11.2 (p.425–433)	4	1/30	Lecture #4	
3	Prepare for and deliver	5	2/4	Lecture #5	
	Cold Plasma Wave Presentations	6	2/6	Lecture #6	HW#1 due 2/4–2/6
4	GB Chap. 7, Sec. 7.3 (p.239–260)	7	2/11	Lecture #7	
	BS Chap. 4, Sec. 4.5–4.7 (p.108–130)	8	2/13	Lecture #8	HW#2 due 2/13
5	None	9	2/18	Lecture #9	
		10	2/20	Lecture #10	HW#3 due 2/20
6	Review Lectures #1–10	11	2/25	Midterm #1 Review	
	Review HW #1–3	12	2/27	No Lecture	Midterm Exam #1
7	GB Chap. 9, Sec. 9.1–9.1.1 (p.319–323)	13	3/4	Lecture #11	
	GB Chap. 9, Sec. 9.2 (p.328–346)	14	3/6	Lecture #12	
	BS Chap. 7, Sec. 7.1–7.3 (p.252–268)				
8	GB Chap. 9, Sec. 9.3–9.4 (p.346–356)	15	3/11	Lecture #13	
		16	3/13	Lecture #14	HW#4 due 3/13
Spring Break					
9	GB Chap. 9, Sec. 9.1.2 (p.323–328)	17	3/25	Lecture #15	
	GB Chap. 9, Sec. 9.5 (p.356–370)	18	3/27	Lecture #16	HW#5 due 3/27
	BS Chap. 7, Sec. 7.4–7.5 (p.268–277)				
10	GB Chap. 11, Sec. 11.1 (p.428–441)	19	4/1	Lecture #17	
	BS Chap. 10, Sec. 10.1–10.2 (p.376–388)	20	4/3	Lecture #18	HW#6 due 4/3
11	GB Chap. 2, Sec. 2.2 (p.6–9)	21	4/8	Lecture #19	
	BS Chap. 11, Sec. 11.7 (p.453–458)	22	4/10	Lecture #20	HW#7 due 4/10
12	Review Lectures #11–20	23	4/15	Midterm #2 Review	
	Review HW #4–7	24	4/17	No Lecture	Midterm #2
13	Read Barenblatt (2003), p.1–26	25	4/22	Lecture #21	
	Read Taylor (1950a) and (1950b)	26	4/24	Lecture #22	
14	None	27	4/29	Lecture #23	
	None	28	5/1	Lecture #24	HW#8 due 5/1
15	Review Lectures #1–24	29	5/6	Lecture #25	
	Review HW #1–8	30	5/8	Final Review	
	Finals Week, 5/12–5/16			Final Exam	TBD

Textbooks:
Required: **GB=**Gurnett & Bhattacharjee (2017) *Introduction to Plasma Physics: With Space and Laboratory Applications*
Optional: **BS=**Boyd & Sanderson (2003) *The Physics of Plasmas*