

PHY 4324 Electromagnetism 2, Spring 2019 Schedule

Revised 03/08/19, 04/24/19

Chapter 7 Electrodynamics

1. M 01/07 Introduction and organization
2. W 01/09 Sec. 7.1 Emf
3. F 01/11 Sec. 7.1
4. M 01/14 Sec. 7.2 Electromagnetic induction
5. W 01/16 Sec. 7.2
6. F 01/18 Sec. 7.2/7.3 Maxwell's equations
- M 01/21 MLKJ Birthday
7. W 01/23 Sec. 7.3 [Homework 1 due](#)
8. F 01/25 Sec. 7.3

Chapter 8 Conservation laws (Skip Sec. 8.3 Magnetic forces do no work)

9. M 01/28 Sec. 8.1 Charge and energy
10. W 01/30 Sec. 8.1/8.2 Momentum
11. F 02/01 Sec. 8.2

Chapter 9 Electromagnetic waves

12. M 02/04 Sec. 9.1 Waves in one dimension
13. W 02/06 Sec. 9.1 [Homework 2 due](#)
14. F 02/08 *Review for Exam 1*
15. M 02/11 Sec. 9.2 Electromagnetic waves in vacuum
[Exam 1 \(Chapters 7 and 8\), 8:20 pm – 10:10 pm, NPB 1002](#)
16. W 02/13 Sec. 9.2
17. F 02/15 Sec. 9.3 Electromagnetic waves in matter
18. M 02/18 Sec. 9.3
19. W 02/20 Sec. 9.3/9.4 Absorption and dispersion
20. F 02/22 Sec. 9.4
21. M 02/25 Sec. 9.4
22. W 02/27 Sec. 9.4/9.5 Guided waves
23. F 03/01 Sec. 9.5 [Homework 3 due](#)
- 03/02 – 03/09 Spring break
24. M 03/11 Sec. 9.5

Chapter 10 Potentials and fields

25. W 03/13 Sec. 10.1 The potential formulation
26. F 03/15 Sec. 10.1
27. M 03/18 Sec. 10.1/10.2 Continuous distributions
28. W 03/20 Sec. 10.2
29. F 03/22 Sec. 10.2
30. M 03/25 Sec. 10.3 Point charges

31. W 03/27 *Review for Exam 2*
R 03/28 Exam 2 (Chapters 9 and 10), 8:20 pm – 10:10 pm, NPB 1002

Chapter 11 Radiation

32. F 03/29 Sec. 11.1 Dipole radiation
33. M 04/01 Sec. 11.1 Homework 4 due
34. W 04/03 Sec. 11.1/11.2 Point charge
35. F 04/05 Sec. 11.2
36. M 04/08 Sec. 11.2

Chapter 12 Electrodynamics and relativity

37. W 04/10
38. F 04/12
39. M 04/15
40. W 04/17
41. F 04/19
42. M 04/22
43. W 04/24 *Review for Final*
T 04/30 Final Exam (Chapters 11 and 12), 3:00 pm – 5:00 pm, Matherly Hall 018.