

Physics 244
Fall 1994
3425 Sterling Hall

Instructor: Robert Joynt
Office: B301A Sterling Hall
Office Hours: 1:00 PM Tuesday
 1:00 PM Thursday
Also drop-in and by appointment
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Teaching Assistant: Zoran Skoda
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 1:20 PM Friday

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Optional discussion sections:
1:20 PM Monday, 1327 Sterling (Joynt)
1:20 PM Tuesday, B239 Van Vleck (Skoda)
3:30 PM Wednesday, 3425 Sterling (Joynt)

Text: Modern Physics, Tipler

General references: Modern Physics, Sproull and Phillips
Modern Physics, Krane
Modern Physics, Ohanian
Modern Physics, Serway

Kinetic theory and thermodynamics: Thermodynamics, Sears

Quantum mechanics: Quantum Physics, Eisberg and Resnik
Introduction to Modern Physics, Anderson

Atomic physics: Atomic Physics and Atomic Structure, Herzberg

Theory of solids: Introduction to Solid State Physics, Kittel

Grading: There will be three hour exams held at the regular class hour.

Each hour exam counts 19% in the final grade.

There is a cumulative two hour final exam at 7:45 AM, December 17.
It will count 38% in the final grade.

Homework will be collected in class each Friday. One of the problems will be selected and graded. A full set of solutions will be put on reserve in the Physics Library. Homework will be returned the following Friday. The homework will count 5% toward the final grade.

Final grades will be distributed on a standard curve.

**Physics 244
Syllabus**

Date	Text Sections Covered	Problems due
Sep. 2	1-1, 1-2, 1-3	
Sep. 7	1-4, 1-5, 1-7	
Sep. 9	1-8, 1-9, 1-10	Exs. 1.3, 1.6, 1.7, 1.9 Prob. 1.10
Sep. 12	2-1, 2-2	
Sep. 14	2-3	
Sep. 16	2-4	Exs. 1.23, 1.25, 1.30, 1.34, 2.1, 2.4
Sep. 19	2-5	
Sep. 21	2-6	
Sep. 23	5-1, 5-2, 5-3	Exs. 2.11, 2.14, 2.24, Probs. 2.6, 2.10
Sep. 26	5-4, 5-5, 5-6	
Sep. 28	5-7, 5-8, 5-9	
Sep. 30	6-1	Exs. 5.2, 5.3, 5.5, 5.6, 5.19, 5.23
Oct. 3	First hour exam on Chs. 1, 2, 5	
Oct. 5	6-2, 6-3	
Oct. 7	6-4	Exs. 6.1, 6.3, 6.6

Oct. 10	6-5	
Oct. 12	6-6	
Oct. 14	6-7	Exs. 6.13, 6.17, 6.18 Prob. 6.6
Oct. 17	6-8, 6-9	
Oct. 19	7-1, 7-2	
Oct. 21	7-3	Exs. 6.20, 7.1, 7.5
Oct. 24	7-4	
Oct. 26	7-5	
Oct. 28	7-6	Exs. 7.5, 7.6, 7.7, 7.13, 7.16
Oct. 31	7-7, 3-6, 4-4	
Nov. 2	Second hour exam on Chs. 6 and 7 and Secs. 3-6, 4-4	
Nov. 4	8-1, 8-3	Exs. 7.24, 7.25, 7.31, 7.33
Nov. 7	8-4	
Nov. 9	8-4 cont., 3-4	
Nov. 11	9-1	Exs. 8.1, 8.9, 8.11 Prob. 8.4
Nov. 14	9-2, 9-3	
Nov. 16	9-4	
Nov. 18	9-5, 3-5	Exs. 9.1, 9.5, 9.8, 9.15, 9.16, 9.21
Nov. 21	9-6	

Nov. 23	9-7	
Nov. 28	9-7 cont.	
Nov. 30	9-8	
Dec. 2	11-1, 11-2, 11-3, 11-8	Exs. 9.25, 9.28 Prob. 9.9 (and to be assigned)
Dec. 5	Third hour exam on Chs. 8, 9, Sec. 3-5, and supplementary notes	
Dec. 7	11-4, 11-5	
Dec. 9	11-6, 11-7	Exs. 11.1, 11.8, 11.10, 11.20, 11.25
Dec. 12	12-1, 12-2, 12-3, 12-4	
Dec. 14	12-5, 12-6, 12-7	Exs. 12.3, 12.5, 12.9, 12.12 Prob. 11.4
Dec. 17	FINAL EXAM, 7:45 AM	