

# Physics 240B, Condensed Matter Physics

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E-mail is by far the best way to get in touch with me.

**Text** Ashcroft & Mermin, Solid State Physics

**Prereqs** Physics 240A or equivalent, or knowledge of crystal structure, free electron gas, and effects of periodic potential on electrons. Also familiarity with Fourier series and with the core undergraduate physics curriculum (especially quantum mechanics, statistical mechanics, and electricity and magnetism).

**Grading** **Homework 35%**  
Weekly problem sets, which may include brief programming assignments. Lowest homework grade will be dropped. Generally late homework is accepted for half-credit up to one lecture past the regular due date.

**Midterm 25%**  
There will be an in-class midterm, tentatively on Tuesday February 10.

**Final Exam 40%**  
The final is scheduled for March 17 at 8 AM.

**Schedule** The chart below shows the material I plan to discuss this quarter. Pace is subject to change, but I will cover all the topics to at least some degree.

Chapter or Topic	Approximate Dates
Chapters 28-29	1/6-1/22
Chapters 19-20	1/27-1/29
Chapters 22-23	2/3-2/19
Chapter 25	2/24
Chapter 24	2/26
Chapter 17, 18, 27	3/3-3/12