ECE215B/Materials206B, Srping2009

Fundamentals of Solids for Electronics

Professor E. R. Brown, 2205C Engineering Sciences Bldg, erbrown@ece.ucsb.edu

- **Lectures: Monday and Wednesday, 4:00 – 5:50pm; 1437 Phelps**
- **Office Hours: Tuesdays, 4:00 – 5:50pm**
- **Seven Homeworks: Assigned periodically**
- **Grading: Best of two quizzes: 50%; Final exam: 50%**
- **Quiz#1: Wednesday 29 April 2009, 5:00 – 5:50pm (tentative)**
- **Quiz#2: Monday 1 June 2009, 5:00 – 5:50pm (tentative)**
- **Final Exam: Friday 12 June, 4:00 – 7:00 PM (1437 Phelps)**
- **Lecture style: - One 10-minute break at ~4:55 PM,**
  - **Use the chalk board for everything except topics that require large matrices (e.g., stiffness matrix) or complicated graphics (3D Wigner Seitz cells)**
  - **At least one good example each lecture**
- **Syllabus: See separate document; designed largely to prepare ECE Students for the Fall Ph.D. Screening Exam.**
- **Exam style: Closed book, closed notes, but lots of clues. Calculators may be required.**

Course Notes: Draft Textbook, "Solid State Engineering", Chapters 7 - 12. Optional Chapter 13 depending on Choice of Students

Course Announcements, HW Documents, etc. will be posted on Course Website:
`http://www.ece.ucsb.edu/current_courses.shtml`

Suggested Text #1: "Solid-State Physics for Engineering and Materials Science**" by J.P. McKelvey.** Krieger Publishing, 1st Ed, August 1993.