Class:	MWF 9:00-9:50	K 203
Lab:	Th: 5-8pm	Kirk 215
Instructor:	Godi Fischer, Professor, K 214	e-mail: fischer@ele.uri.edu
Office Hours	Mo: 2:00-4:00, W: 2:00-4:00	
Lab Instructor:	Michael Platek, Kirk 214	e-mail: platek@ele.uri.edu

Text: Ben G. Streetman and Sanjay K. Banerjee: Solid-State Electronic Devices. Pearson/Prentice Hall, 6th Edition, 2006, ISBN 0-13-149726-X.

Syllabus:

- 1. Introduction
- 2. Properties of Crystals (Ch. 1)
- 3. Concepts of Quantum Mechanics (Ch. 2)
- 4. Energy Bands in Crystals (Ch. 3)
- 5. Carrier Transport in Semiconductors (Ch. 4)
- 6. Semiconductor Junctions (Ch. 5)
- 7. Field-Effect Transistors (Ch. 6)
- 8. Bipolar Junction Transistors (Ch. 7)
- 9. Optoelectronic Devices (Ch. 8)

Exams:

- 1. **F 2-22-08**, 50 min., 2-page summary
- 2. **F 4-04-08**, 50 min., 3-page summary
- 3. Final, 3 hours, 4-page summary

Grading: The final grade will be computed as a weighted average of the two intermediate exams (17.5% each), the quizzes (10%) the final exam (30%) and the lab performance (25%).

Note:

To pass the course, student must take all exams, participate in all labs and **complete** all individual lab assignments.