

ECE507 Seminar: Microelectronics (1 credit)

Spring 2012

FAB155 Monday 12:00-1:30am (P/NP or letter grade)

Information:

ece.pdx.edu/~jmorris/ece507 microelectronics seminar

Coordinator:

Prof James Morris

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Office hours:

Monday 4-5pm; Wednesday 10-11am.

Office: FAB 160-13

Phone: (503)725-9588

Course requirements:

1. Attendance at all scheduled seminars, (see below). In the case of illness or other necessary absence, another seminar may be substituted with prior approval, e.g. a local IEEE chapter presentation.
2. For P/NP:
 - Option 1: 1-page review of each seminar attended; no additional research required. Hard copy due one week later.
 - Option 2: 5-10 page paper on ONE seminar topic; additional research required. Hard copy due noon, Monday 4th June.
3. For letter grade:
 - Option 2 with expanded 10-20 page paper, and
 - Oral PowerPoint presentation Monday 4th June.

Academic honesty policies apply, and all transgressions will be reported as student code of conduct violations (<http://www.pdx.edu/dos/codeofconduct>) as per ECE department policy.

SCHEDULE

April 2	Introduction	
April 9	Prof Rob Daasch	A Fault-Tolerant Alternative to Lockstep Triple Modular Redundancy
April 16	Andrew Greenberg	Design history and technology of the Opal Movement Monitor
April 23	Dr Glenn Shirley	Microelectronics reliability
April 30	Prof Jim Morris	Sensors for automotive engine controls
May 7	Prof Jim Morris	Electrically conductive adhesives
May 14	Liang (Simon) Wang	White light LED technology
May 21	Prof Bob Bass	THz, Superconductivity and Power: The Antenna-Coupled Cryotron
May 28	Memorial Day	
June 4	Student project report presentations	