

ECE507 Seminar: Nanotechnology (1 credit)

Winter 2012

FAB40-07 Tuesday 12:30-1:50am (Pass/fail or letter grade)

Information:

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

Coordinator:

Prof James Morris	jmorris@cecs.pdx.edu
Office hours:	Tues 11.00-12.00 am & 2.00-3.00 pm
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. 5-10 page written paper on ONE approved topic, including references to the relevant research literature. Normally, this would be based on one of the seminars, but this year we will take advantage of IEEE NANO 2011, which was held in Portland last August, with the reports being based on THREE selected papers and on-line presentations. Due 4pm Fri 9th March. (Hard copy and e-mail.)
3. In addition, for letter grade
 - Expanded paper (10-20 pages)
 - Oral PowerPoint presentation (March 13th) 15min + 5min Q&A

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

January 10	Introduction	
January 17	Pavel Plachinda	Graphene Band Structure Engineering Physics, PSU
January 24	Jim Morris ECE, PSU	Nanopackaging: Nanotechnologies in Microelectronics Packaging
January 31	Peter Moeck Physics, PSU	Nanomaterials Science & Engineering: an Elective Course in Applied Physics
February 7	Dan Hammerstrom ECE, PSU	
February 14	Jim Morris ECE, PSU	Nanopackaging (continued) Project report expectations
February 21	Raj Solanki Physics, PSU	Nanowire Circuit Applications
February 28	Rolf Koenenkamp Physics, PSU	
March 6	Malgorzata Chrzanowska-Jeske ECE, PSU	CNT-FET circuits with metallic CNTs
March 13	Student project report presentations	