

CH 410/510 – Nanomaterials Fall 2010

Instructor: Dr. Mingdi Yan, Office: 224B SB1, phone: 503-725-5756, yanm@pdx.edu

Course Website

Course-related materials are posted on the Blackboard course site (<http://bb.pdx.edu>) under: CH-510: SELECTED TOPICS - CH-510-002: TOP: NANOMATERIALS (FALL 2010). Make sure that you register on Blackboard.

Class Meetings: TTh 2:00-3:50 pm, Room 304 SB1

Office Hours: by appointment

Reference book (recommended): *Introduction to Nanoscience*, by G. L. Hornyak, J. Dutta, H. F. Tibbals, A. K. Rao, CRC Press, 2008. Available at PSU bookstore.

Course Organization

Exam 1*	Tuesday Oct. 26	35%
Exam 2*	Tuesday, Nov. 23	35%
Presentations**	Tue. & Thur. Nov. 30 & Dec. 2	30%

- * Exam 1 will cover the first half of the course materials, and Exam 2 the second half. There will be no final exam.
- * If you cannot take the exam due to medical or family emergencies, inform the instructor in advance and provide a written explanation together with the documentation. There will be no make-up exams.
- ** You will be grouped for an oral presentation either on a project (CH410 students) or a literature article (CH510 students). The project and literature files, and instructions on how to prepare for the presentation and the grading guideline can be found on Blackboard.

Grading

>85% A >75% B >65% C >55% D

Course Schedule (tentative, subject to change)

Introduction	Chapter 1
Characterization methods	Chapter 3
Fabrication	Chapter 4
Nanosurface	Chapter 5
Special topic: TBA	
Carbon-based nanomaterials	Chapter 9
Chemical interactions at nanoscale	Chapter 10
Self-assembly	Chapter 12
Natural nanomaterials	Chapter 13