

**25.550 Introduction to Nanotechnology**  
**Fall 2008**

Graduate course

Time: Wednesday, 6:00-8:50 pm

“Introduction to Nanotechnology” is designed to provide you with a broad overview to the multi-disciplinary field of nanotechnology. The course is team-taught by researchers from science, engineering, health and environment, management, and humanities disciplines. As shown below, the topics include an introduction to nanoscale phenomena; fundamental theoretical concepts and experimental techniques in nanotechnology; nanoscale manufacturing and processing; innovative nanomaterials for various applications; applications of the technology; and environmental and health impacts of nanotechnology.

Date	Lecture Topic	Lecturer
Sep. 3	Introduction to Nanotechnology	C. Barry
Sep. 10	Characterization Overview (lecture + lab)	J. Lee
Sep. 17	Polymeric Nanomaterials	A. Watterson
Sep. 24	MEMS/NEMS	H. Sun/ Z/ Gu
Oct. 1	Surface Chemistry	J. Whitten
Oct. 8	Photonics/Quantum dots	C. Armiento/ X. Lu
Oct. 15	No class (Monday schedule)	
Oct. 22	Nanomanufacturing	Mead/Chen
Oct. 29	Nanoelectronics	J. Therrien
Nov. 5	Sensors	J. Kumar
Nov. 12	Nanocomposites	TBD
Nov. 19	Ethics of Nanotechnology	TBD
Nov. 26	No Class (Thanksgiving recess)	
Dec. 3	A. Environmental Impacts/Health B. Environmental Remediation using Nanotechnology	Ellenbecker/ J. Zhang
Dec. 10	Business/Economic impacts	TBD