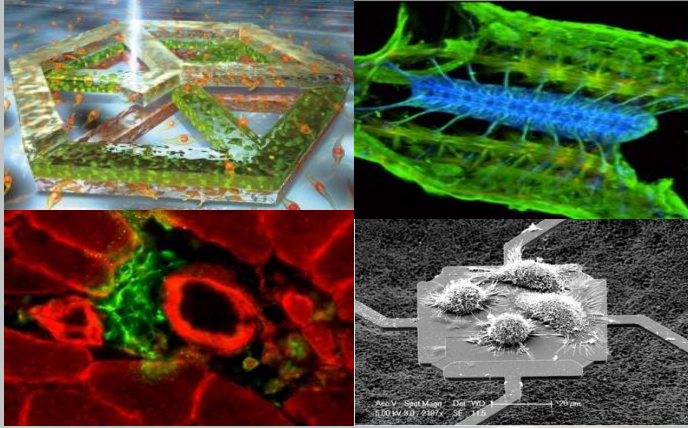


New for Fall 2011!

BioNanotechnology and Nanomedicine: Applications in Cancer and Mechanobiology



BIOE 498 BNM | MCB 493 BNM | ME 498 BNM



Course Instructors

**Rashid Bashir, Electrical and Computer Engineering,
and Bioengineering**

Ann Nardulli, Molecular and Integrative Physiology

Catherine Murphy, Chemistry

Taher Saif, Mechanical Science and Engineering

Course Description: BioNanotechnology and Nanomedicine: Applications in Cancer and Mechanobiology will provide an introduction to basic concepts of nanotechnology in mechanobiology and in cancer. This is a highly interdisciplinary field of research where knowledge from various disciplines will be presented and integrated. The course will be team taught by faculty from Engineering and LAS. There will be 4 main sections of the course; (i) introduction to nanotechnology and nanomedicine, (ii) biological concepts and cancer biology, (iii) applications in cancer, i.e. cancer nanotechnology, and (iv) applications in cellular mechanics, i.e. mechanobiology and nanotechnology. The course is intended for first year graduate students and upper level undergraduates.

Prerequisites: MCB 150 or equivalent knowledge

Days and Time: Tuesdays and Thursdays from 3:30-4:50 PM

Credit Hours: 3

Location: TBD

IGERT Integrative Graduate Education and Research Traineeship
Cellular and Molecular Mechanics
and BioNanotechnology



cmmb-igert.illinois.edu

M-CNTC NCI Alliance for Nanotechnology in Cancer
Midwest Cancer Nanotechnology
Training Center



m-cntc.illinois.edu

nano@illinois
nano solutions for mega problems

cnst.illinois.edu