BIOEN 3091 “Current Research in Bioengineering”

Spring 2017, 1 Credit Hour; 11:50-12:40 Wednesdays; 2230 Warnock Engineering Building

Goal of Class: To introduce our upper division and entering graduate students to some of the exciting research projects that are currently ongoing in our department.

Course Director: Hamid Ghandehari, 7-1565

Credit/No credit; Roll will be taken at each lecture. Each student will buy a notebook (or use their laptop), take notes on each lecture, propose two questions at the end of each lecture (to be written in their notebooks or laptop), and turn in their notebooks (or printouts of their laptop notes) at the end of the course for a credit/no credit ‘grade’. Each student can miss no more than three lectures to receive a CR grade for the course.

Jan 11 – Hamid Ghandehari - Introduction to Course - “Naomedicine: Opportunities and Challenges”
Jan 18 – Lucas H. Timmins – “Integration of Biomechanics into Cardiovascular Disease Clinical Care”
Jan 25 – Massood Tabib-Azar – “Applications of Nanotechnology in Biosensing and Actuation”
Feb 1 – Shawn Owen – “Antibody-Conjugates for Therapeutics and Diagnostics”
Feb 8 – Alan (Chuck) Dorval – “Modulating Brain Activity to Alleviate Symptoms of Neurological Disease”
Feb 15 – Martin Jensen – “Graduate Studies in Bioengineering: A Graduate Student’s Perspective”
Feb 22 – Allison Payne – “Applications of Magnetic Resonance Guided Focused Ultrasound”
March 1 – Rick Rabbitt – “One Fish, Two Fish, Red Fish, Blue Fish. “Will you please look in my ear?” ”
March 8 – Richard Brown – “Sensors for Point-of-Care Monitoring”
March 15 – Spring Break (No Class)
March 22 – Marc Porter – “Nanotechnology Strategies for Disease Diagnostics - Real Time Results for Real Time Decisions”
March 29 – Jessica R. Kramer – “Biomedical Applications of Synthetic Glycopolypetides”
April 5 – You H Bae – “Gene Therapy for Obesity”
April 12 – Hamid Ghandehari – “Naomedicine Cont’d”