BMEN E4580 (3 points)

Fundamentals of Nanobioscience and Nanobiotechnology

Summer C 2016 (May 23 – June 24)

Instructor: Professor Henry Hess

Course Objectives: The purpose of this course is to introduce senior undergraduate and junior graduate students – including M.S. students from the Biomedical Engineering, Chemical Engineering, and Biotechnology programs – to the emerging fields of nanobioscience and nanobiotechnology. Nanobiotechnology is a technology area at the intersection of nanotechnology and of biotechnology, which uses biological processes and entities for engineering purposes. Through a unique mixture of lectures, case studies, and case histories inspired by the active learning approaches practiced in business schools, the student will acquire an understanding of the scope of nanobiotechnology, the scientific foundations of the design principles applied in nanobiotechnology, and examples of current and envisioned applications.

Meeting times: Mon, Tues, Wed, Thur, Fri 10:10 – 11:25 am
Tues, Thur 1:10 – 2:25 pm
(complementary to BMEN E6500)