

BIEN 001: Introductory Colloquium in Bioengineering

Fall 2014

COURSE OUTLINE

Course Time: Lecture: M, 9:10 a.m. - 10:00 a.m. Watkins 1101
Instructor: Professor V. G. J. Rodgers (215 MSE Building) victor.rodgers@ucr.edu
TA: Ms. Danielle Ornelas (Office Hours TBD) dorne002@ucr.edu
Textbooks: *None*
Other References: *Class Notes*

Topic Description:

Colloquia on current topics in bioengineering and other related fields delivered at an introductory level. Presented by faculty members, visiting scientists, or individuals with industrial bioengineering experience.

Course Goals:

So, by the end of this course, you will strengthen your skill level so that:

- i. you will better understand topics in and related to bioengineering,
- ii. you will better understand the bioengineering curriculum,
- iii. you will better understand why lower-level science and mathematics courses are needed in preparation to becoming a bioengineer,
- iv. and, you will better understand the resources available at UCR to help you achieve success in your academic mission.

Each week we will have a guest speaker and cover material related to bioengineering. No textbook is needed in this class but students are urged to use all available resources to improve their understanding of the field of bioengineering.

Grading:

This course is for the students' benefit. Satisfactory performance is determined by attendance, class participation, in-class quizzes and satisfactorily completing homework and assignments. Quizzes will be unannounced and will generally cover material discussed in the previous lectures. All homework is to be submitted on iLearn by the designated deadline.

Evaluation	POINT
In-Class Quizzes (Unannounced)	40
Homework	40
Class Participation	20
TOTAL	100

Schedule

Week 1:	October 6	Topic:	Welcome
Week 2:	October 13	Guest Speaker: Topic:	Professor B. H. Park Laboratory The Courses of Bioengineering
Week 3:	October 20	Guest Speaker: Topic:	Ms. Stephanie Tehseldar, TruTouch Type of Learners
Week 4:	October 27	Guest Speaker: Topic:	Professor Jiayu Liao Laboratory Good Study Habits
Week 5:	November 3	Guest Speaker: Topic:	Professor William Grover Laboratory Ethics in Engineering
Week 6:	November 10	Guest Speaker: Topic	Professor Dimitrios Morikis Laboratory Good Communication Skills
Week 7:	November 17	Guest Speaker: Topic:	Mr. Jared Dobson, Abbott Vascular A Tiny Taste of Engineering Tools: Matlab
Week 8:	November 24	Guest Speaker Topic	Professor Huinan Liu Laboratory A Tinier Taste of Engineering Tools: COMSOL
Week 9:	December 1	Guest Speaker: Topic	Professor Valentine Vullev Laboratory Exam Preparation
Week 10:	December 8	Guest Speaker Topic	Professor V. G. J. Rodgers Laboratory What Next?