BME 1110 · Introduction to Engineering Science Applications for All

Course Description: This course focuses on getting students excited about biomedical engineering and provides the foundation of application in engineering through a series of guest lectures from BIE-department faculty and graduate students.

Course Learning Objectives

Students enrolled in this course will learn the following concepts and skills, to be applied and/or performed upon successful completion:

- appreciate how engineers design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy
- understand basic engineering principles
- employ critical thinking, problem solving, and communication skills
- contribute to a sense of community through active participation
- be familiar with various aspects of Biomedical Engineering
- appreciate the impact that engineering practice has on society and the environment
- understand that engineering design is a continuously cyclic process of inspiration, analysis, and resource allocation

Student Learning Outcomes

After successful completion of this course students will be able to do the following concepts and skills, to be applied and/or performed upon successful completion:

- appreciate how engineers design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy
- understand basic engineering principles
- employ critical thinking, problem solving, and communication skills
- contribute to a sense of community through active participation
- be familiar with various aspects of Biomedical Engineering
- appreciate the impact that engineering practice has on society and the environment
- understand that engineering design is a continuously cyclic process of inspiration, analysis, and resource allocation

Course Outline/Schedule:

WEEK	TOPIC
1	GUEST LECTURE IN BIOMEDICAL ENGINEERING
2	GUEST LECTURE IN BIOMEDICAL ENGINEERING
3	GUEST LECTURE IN BIOMEDICAL ENGINEERING

4	GUEST LECTURE IN BIOMEDICAL ENGINEERING
5	GUEST LECTURE IN BIOMEDICAL ENGINEERING
6	GUEST LECTURE IN INDUSTRIAL AND SYSTEMS ENGINEERING
7	GUEST LECTURE IN INDUSTRIAL AND SYSTEMS ENGINEERING
8	GUEST LECTURE IN INDUSTRIAL AND SYSTEMS ENGINEERING
9	GUEST LECTURE IN INDUSTRIAL AND SYSTEMS ENGINEERING
10	GUEST LECTURE IN HUMAN FACTORS ENGINEERING
11	Veteran's Day; University Closed
12	GUEST LECTURE IN HUMAN FACTORS ENGINEERING
13	Thanksgiving Holiday; University Closed
14	GUEST LECTURE IN HUMAN FACTORS ENGINEERING
15	GUEST LECTURE IN HUMAN FACTORS ENGINEERING