

## **BME 101, Introduction to Biomedical Engineering**

0 Credits, 1 Contact hour

Instructor: Naphtaly Ehrenberg, MS, & Various Members of the BME Department Faculty

Course Coordinator: Naphtaly Ehrenberg, MS

### **Textbook(s)/Materials Required:**

None

### **Description:**

This seminar is designed to orient the new BME student to the Biomedical Engineering Curriculum and Department. Students will be introduced to BME faculty and their research. The three specialization areas will be discussed: Bioinstrumentation, Biomaterials & Tissue Engineering, and Biomechanics. Important resources including the BMES student society, tutoring & mentoring, and career-building will be presented. Students are encouraged to actively participate in discussions.

### **Prerequisites:**

None

**This is a required course** Freshmen & New Transfer Students

### **Course Learning Outcomes (CLO):**

1. Be able to identify faculty and prominent research areas in the BME department
2. Understand the three specialization areas in the BME program
3. Be familiar with resources to help with study skills and academic planning
4. Be familiar with course registration and advising policies and procedures
5. Have a better understanding of the BS in BME degree requirements
6. Get a preview of the opportunities that await you and the field of Biomedical Engineering at large!

### **Student Outcomes:**

**Student outcome H** - Broad education to understand effect of engineering solutions in a global, economic, environmental, and societal context.

**Related CLO - 1, 2, 6**

**Student outcome J** - Knowledge of contemporary issues.

**Related CLO - 1, 2, 6**

**Course Topics:** Survey of available student resources at NJIT & in the BME department, as well as a brief introduction to the major areas of research that the BME faculty are involved in.