

# **BME 10100 Introduction to Biomedical Engineering**

Spring 2014

F 1-2pm ST-402

1 credit, 1 hour/week

**Prerequisite:** For BME majors

**Instructor:** Professor Lucas Parra, Room ST-403C, 212.650.7211, [parra@ccny.cuny.edu](mailto:parra@ccny.cuny.edu)

**Office hours:** We 1pm-2pm

**Online course supplement:** All class announcements, assignments, and documents will be posted here <http://bme.ccny.cuny.edu/faculty/parra/teaching/101/>

**Course description:**

An overview of the field of biomedical engineering designed to acquaint the students with its interdisciplinary nature; research areas presented by the biomedical engineering faculty.

**Course objectives:**

1. To introduce the student to the field of biomedical engineering and contemporary issues in the field.
2. To increase students' awareness of careers and opportunities in the field of biomedical engineering.

**Topics covered:**

- Overview of the field of biomedical engineering
- Career pathways in biomedical engineering
- Introduction to cardiovascular engineering, neural engineering, musculoskeletal biomechanics, nanotechnology and biomaterials
- Guided tours of BME research laboratories
- BMES student chapter activities

**Grading policy:** This is a Pass/Fail course. Attendance is **required**. If you miss more than 3 class meetings you will fail the course and have to take it again. Being late more than 10 minutes counts as being absent, so arrive on time. In addition, short quizzes may be given at the beginning of class about the material presented in the previous class.

**Course assignments:** Two written summaries related to topics presented in class will be due half-way through the semester and at the end of the semester. These assignments must be completed satisfactorily in order to pass the course. Detailed instructions on these assignments are posted on the website above.

**Class participation:** It is expected that students will actively participate in the group exercises as well as the question/answer period of the seminars.