REQUIREMENTS

Students majoring in Biomedical Engineering are required to complete a minimum of 136 credits as detailed on the Program Planning Sheet on the other side of this form.

General Education courses: For a list of specific courses that satisfy the Social Science, Humanities, and the General Education Elective, please go to the College of Engineering Undergraduate Requirements website at: http://www.bu.edu/eng/current-students/ugrad/requirements/.

CONTINUUM AND FIELDS IN BIOMEDICAL SYSTEMS ELECTIVE (4 credits required)

ENG BE 419 Principles of Continuum Mechanics and Transport
ENG BE 420 Introduction to Solid Mechanics
ENG BE 435 Transport Phenomena in Living Systems
ENG BE 436 Fundamentals of Fluid Mechanics

PROFESSIONAL ELECTIVES (8 credits required)

All ENG BE, EC, EK, and ME 300, 400, and 500 level courses are suitable as a professional elective

- ENG ME 359 – CAD/ Machine Components (2 cr)
- ENG EC 412 – Analog Electronics
- ENG ME 437 – Nanometer Scale Processes
- ENG ME 419 Mechanical Vibrations
- ENG ME 420 – Introduction to Solid Mechanics
- ENG ME 436 Applications in Bioinformatics
- ENG ME 501 – Nanoscale Materials
- ENG ME 502 – Nanotechnology

MINORS:

Students may earn two engineering BS degrees. Double majors require a minimum of 168 credits and students must fulfill the requirements for each of the degree programs. See http://www.bu.edu/eng/academics/special-programs/ for more details.

OTHERWAYS TO ENHANCE YOUR DEGREE

Students have several additional options available to them including study abroad, research, and co-op/internship opportunities. For more information on these programs, please visit the College of Engineering Undergraduate website: http://www.bu.edu/eng/academics/.

Notes: For the following 9 sets of courses, only 1 course can be taken for credit in each set due to the overlap of material:

1. ENG ME 305, ENG ME 402, ENG EC 402, ENG EC 410, ENG BE 402
2. ENG ME 305, ENG ME 402, ENG EC 402, ENG BE 402, ENG EC 410
3. ENG ME 305, ENG ME 402, ENG EC 410
4. ENG ME 305, ENG ME 402, ENG EC 410
5. ENG ME 305, ENG ME 402, ENG EC 410
6. ENG ME 305, ENG ME 402, ENG EC 410
7. ENG ME 305, ENG ME 402, ENG EC 410
8. ENG ME 305, ENG ME 402, ENG EC 410
9. ENG ME 305, ENG ME 402, ENG EC 410

** Summer only

11/26/14