Notes
- Students planning to study abroad sophomore 2 should take EK 301 in sophomore 1.
- Premed students take CAS CH203/4 sophomore year and defer WR 150 and Hub elective.
- Grey box = either semester
- Students must complete 48 credits of upper-division program coursework (not including social science/humanities or writing).

General Education Electives Checklist
- 1. CAS WR 100
- 2. CAS WR 150
- 3. One Social Science course
- 4. One Humanities course
- 5. One Social Science or Humanities course
- 6. One General Education elective course
- 7. Total of at least 24 credits
REQUIREMENTS

Pre-Med Majors: Students should consult with the BU Pre-Professional Advising Office and their ENG Faculty Advisors

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/.

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

- ENG BE 419 Principles of Continuum Mechanics and Transport
- ENG BE 420 Introduction to Solid Biomechanics
- 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

[Exceptions due to overlap of material *: BE 500, EC 381, EC 402, EK 500, ME 308, ME 403, ME 404, ME 501]

CAS CH 203, CAS CH 204, and all CAS CH 300, 400 and 500 level courses (except: CAS CH 391, 392, 401, 402, 421, 415).

All CAS PY 300, 400, and 500 level courses (except PY 371, 401, 402, 421, 491, 492).

All CAS MA 300, 400, and 500 level courses (except CAS MA 381, 401, 402).

CAS BI 206, CAS BI 216, and all CAS BI 300, 400 and 500 level courses (except BI 315, 371, 372, 391, 392).

- ENG BF 527 Applications in Bioinformatics
- ENG BF 527 Application in Bioinformatics
- ENG EK 156 Design & Manufacture
- QST SI 480 The Business of Technology Innovation
- SAR HS 360 Muscle Biology in Health & Disease
- QST SI 482 – Technology & Its Commercialization
- ENG BE 419 Principles of Continuum Mechanics
- ENG BE 435 Transport Phenomena in Living Systems
- ENG BE 436 Fundamentals of Fluid Mechanics
- ENG BE 437 Fundamentals of Fluid Mechanics
- ENG BE 420 Introduction to Solid Biomechanics
- ENG BE 436 Fundamentals of Fluid Mechanics

ENGINEERING ELECTIVES (4 credits required)

- ENG BE 404 Advanced Controls
- ENG BE 419 Principles of Continuum Mechanics
- ENG BE 420 Intro to Solid Biomechanics
- ENG BE 435 Transport Phenomena in Living Tissues
- ENG BE 436 Fundamentals Fluid Mechanics
- ENG BE 503 Comp Methods in Biomed ENG
- ENG BE 508 Quant Studies Resp & Card Sys
- ENG BE 511 Biomedical Instrumentation
- ENG BE 521 Continuum Mechanics BME
- ENG BE 533 Biomechanics
- ENG BE 567 Nonlinear Systems in BME
- ENG EC 311 Intro to Logic Design
- ENG EC 327 Intro Software Engineering
- ENG EC 410 Intro to Electronics
- ENG EC 416 Intro Digital Signal Processing
- ENG EC 437 Intro to Biomedical Engineering
- ENG EC 471 Physics Semiconductor Devices
- ENG EC 505 Stochastic Processes
- ENG EK 481 Nanomaterials & Nanotechnology
- ENG EK 481 Nanomaterials & Nanotechnology
- ENG ME 302 Engineering Mechanics II
- ENG ME 305 Mechanics of Materials
- ENG ME 306 Materials Science
- ENG ME 309 Structural Materials
- ENG ME 335 Mechanical Vibrations
- ENG ME 555 MEMS: Fabrication & Materials

BIOMEDICAL ENGINEERING ELECTIVES (12 credits required)

All ENG BE 400 and 500 level courses (except BE 500); BE 700 level courses may be petitioned.

ENG BF 527 Application in Bioinformatics

BIOMEDICAL ENGINEERING DESIGN ELECTIVES (4 credits required)

ENG BE 428 Device Diagnostics & Design
ENG BE 468 Clinical Applications of Biomedical Design

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

1. ENG ME 403, ENG ME 404, ENG BE 402, ENG EC 402
2. ENG ME 303, ENG BE 436
3. ENG ME 441, ENG ME 515
4. ENG ME 501, ENG EC 501
5. ENG EC 102, CAS MA 142, CAS MA 224
6. ENG BE 401, ENG EC 401
7. ENG ME 366, ENG EC 381, ENG EK 381, ENG BE 200
8. ENG ME 460, ENG ME 560

4/17/18