# Biomedical Engineering

## First Year

### Fall
- BME 101 or GE B
- MATH 125 (GE F)* or MATH 126 or MATH 229
- CHEM 105aL (GE E)*
- ENGR 102
- OPTIONAL ELECTIVE

### Spring
- BME 101 or GE B
- MATH 226 or MATH 229
- CHEM 105bL
- WRIT 150
- GESM (GE A)#

## Second Year

### Fall
- BME 202
- PHYS 151L
- CHEM 322aL
- BME ANCHOR COURSE: BME 404 or 405L
- TECHNICAL ELECTIVE

### Spring
- BISC 220L (GE D)
- MATH 245
- CHEM 322bL or 400-level BME course
- WRIT 340
- WRIT 150

## Third Year

### Fall
- EE 202L PHYS 152L, MATH 245
- BME 423
- CHEM 322aL
- BME 403L
- BME 405L

### Spring
- BME 302L
- TECHNICAL ELECTIVE
- PHYS 152L PHYS 151L, MATH 226
- BME 410L
- BME 415

## Fourth Year

### Fall
- WRIT 340
- BME 415 or MATH 416L
- BME 413
- TECHNICAL ELECTIVE

### Spring
- BME 410L
- CHEM 322aL

## Special Notes
- Courses with the * symbol may be satisfied with AP, IB or A-Level exams. See page 18 for more information.
- GESM#: GESM can be taken from GE categories: A, B, or C. Courses listed in the guide are options for a four-year course plan.
- GE: Engineering students are encouraged to satisfy GE-G and GE-H with a course that also satisfies a Core Literacy. GE-H may be satisfied by AP/IB. Additionally, your GESM course should be taken in categories A, B, or C only. See page 17 for more information and consult your advisor for detailed assistance.

## Technical Electives (6-8 units):
- Taken from ONE of the following three areas of specialization:
  - Bioelectronics/Computers: (BME 201, BME 204, BME 426, BME 427, BME 430, BME 451, BME 453, CSCI 445, EE 109L, EE 209, EE 338, EE 348L, EE 352L, EE 354L, EE 483, ENGR 345 or ITP 308) or Biomechanics: (AME 201, AME 204, AME 301, AME 302, AME 308 or ITP 308, AME 309, BME 201, BME 204, BME 404, BME 412, BME 414, BME 426, BME 427, BME 453 or MASC 310)
  - Molecular-Cellular Engineering: (BME 201, BME 204, BME 404, BME 412, BME 414, BME 430, BME 453, BME 459, CHE 330, CHE 350, CHE 460L, CHE 489, ENGR 305, ITP 308, or MASC 310)

The Organic Chemistry option allows students in BME, BMEL, and BMEN to replace one semester of Organic Chemistry with an additional 4-unit 400-level BME course.