**Pre-medicine students should check with their Pre-medicine advisor regarding the need for this course.**

**Note:** At least two electives must be from the list of Engineering Topics

Please check MyUI for the most up to date course offerings and pre/corequisites

Last updated (03/29/21)
### Biomedical Engineering – Program Map: Bioimaging Focus Area

#### Semester 1
- **Chem I & Lab**
  - CHEM:1110
- **Engr Math I**
  - MATH:1550
- **Intro Engr Prob Solving**
  - ENGR:1100
- **Rhetoric**
  - RHET:1030
- **Engr Success First Year**
  - ENGR:1000

#### Semester 2
- **Chem II & Lab**
  - CHEM:1120
- **Engr Math II**
  - MATH:1560
- **Engr Math III**
  - MATH:2550
- **Intro Engr Computing**
  - ENGR:1300
- **Physics I / Lab**
  - PHYS:1611
- **BME Forum**
  - BME:1010

#### Semester 3
- **Foundations of Biology**
  - BIOL:1411
- **Engr Math IV**
  - MATH:2560
- **Statics**
  - ENGR:2110
- **Elec Circuits**
  - ENGR:2120
- **Thermo ENGR:2130 or Intro AI & Mach Learning ENGR:2995**
- **BME Prof Seminar**
  - BME:2010

#### Semester 4
- **Human Physiology**
  - HHP:3500
- **Systems,Instrum, & Data Acquisition / Lab**
  - BME:2200
- **Bioimaging & Bioinformatics / Lab**
  - BME:2210
- **Comp in Engr ENGR:2730**
- **Biostatistics BIOS:4120 or STAT:3510**
- **BME Prof Seminar**
  - BME:2010

#### Semester 5
- **Cell Biology for Engr / Lab**
  - BME:2400
- **Biomaterials & Biomechanics / Lab**
  - BME:2500
- **Medical Imaging Physics**
  - BME:5210
- **Intro to Software Design ECE:3330**
- **GEC Elective #1**
- **Leadership & Resourcefulness BME:3010**

#### Semester 6
- **Focus Area Elective #1**
- **Focus Area Elective #2**
- **Physics II / Lab PHYS:1612**
- **GEC Elective #2**
- **GEC Elective #3**
- **BME Design Seminar BME:4010**

#### Semester 7
- **BME Senior Design I**
  - BME:4910
- **Digital Image Processing ECE:5480**
- **Focus Area Elective #3**
- **Focus Area Elective #4**
- **GEC Elective #4**

#### Semester 8
- **BME Senior Design II**
  - BME:4920
- **Focus Area Elective #5**
- **Focus Area Elective #6**
- **Focus Area Elective #7**
- **GEC Elective #5**

---

*ENGR:2995 will be not be offered in Fall 2021 but will be offered in Spring 2022. Students who want to take ENGR:2995 and not ENGR:2130 can take ENGR:2730 Computers in Engr in Semester 3 and ENGR:2995 in Semester 4.*

*Note: At least two Focus Area Electives must be from the list of Engineering Topics*