

Biomedical Engineering – Example Program Map

Bioimaging (Pre-Medicine)

Semester 1	Chem I / Lab
Semester 2	Chem II / Lab
Semester 3	Foundations of Biology / Lab BIOL:1411 Engr Diff Equat MATH:2560 Statics ENGR:2110 Elec Circuits ENGR:2120 Organic Chem I CHEM:2210 BME Prof Seminar BME:2010
Semester 4	Fund Human Physiology HHP:2400 or Quantitative Physiology BME:2260 Biostatistics BIOS:4120 or STAT:3510 Systems, Instrum, & Data Acquisition / Lab BME:2200 Bioimaging & Bi
Semester 5	Biomaterials & Cell Biology for Engr / Lab BME:2500 Cell Biology for Physics Physics BME:5210 Digital Image Processing ECE:5480 CHEM:2410
Semester 6	Biochemistry BMB:3110 Intro to AI & Comp in Engr Elective #1 (Engr Topic) Physics II / Lab PHYS:1612
Semester 7	BME Senior Design I Design ENGR:3330 Intro to Software Elective #2 (Engr Topic) Be Creative GEC course
Semester 8	BME Senior Design II BME:4920 Focus Area Elective #3 Cultural Perspectives, Values, and Society Approved GEC course GEC course
■ Math & Science Courses ■ Required Engineering Courses ■ Focus Area Required Courses ■ General Education Courses ■ Engineering Core Courses ■ Biomedical Core Courses ■ Focus Area Elective Courses ■ Seminars	

At least two Focus Area Electives must be from the list of Engineering Topics.

Pre-med students should meet with their pre-med advisor to discuss additional non-engineering coursework (such as PSY:1001 and SOC:1010) that may be required/recommended.