## **Biomedical Engineering – Example Program Map**

Cellular Engineering (Pre-Medicine)

Semester 1	Chem I / Lab CHEM:1110  Engr Calc I MATH:1550  Intro Engr Prob Solving ENGR:1100  Rhetoric RHET:1030  Engr Success First Year ENGR:1000
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 Bioimaging & B
Semester 5	Systems, Instrum, & Data Acquisition / Lab BME:2200  Biomaterials & Biomaterials & CHEM:2410  Organic Chem Lab CHEM:2410  Mech Def Bodies ENGR:2750  Cultural Perspectives, Values, and Society
Semester 6	Thermodynamics ENGR:2130  Biochemistry BMB:3110  Physics II / Lab PHYS:1612  Any required focus area course from the other BME focus areas  Cell Material Interactions BME:5421
Semester 7	BME Senior Design I Elective #1 (Engr Topic)  Focus Area Elective #2 (Engr Topic)  Biotransport Be Creative  Be Creative
Semester 8	BME Senior Design II BME:4920  Focus Area Elective #3  Approved GEC course  Approved GEC course  Approved 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.