

Biomedical Engineering – Program Map

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 or BME:2260 Quantitative Physiology	BME Core #1 (BME:2200, 2210, 2400, or 2500)	BME Core #2 (BME:2200, 2210, 2400, or 2500)	BME Core #3 (BME:2200, 2210, 2400, or 2500)	Biostatistics BIOS:4120 or STAT:3510	
Semester 5	BME Core #1 (BME:2200, 2210, 2400, or 2500)	Required Course: Focus Area #1	Physics II / Lab PHYS:1612	Diversity & Inclusion	Be Creative	
Semester 6	Required Course: Focus Area #2	Focus Area Elective #1	Focus Area Elective #2	Approved GEC course	Approved GEC course	
Semester 7	BME Senior Design I BME:4910	Required Course: Focus Area #3	Required Course: Focus Area #4	Focus Area Elective #3	Focus Area Elective #4	
Semester 8	BME Senior Design II BME:4920	Focus Area Elective #5	Focus Area Elective #6	Focus Area Elective #7	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

***Students in the Bioimaging and Computational Bioengineering Focus Areas can choose to take either ENGR:2130 or ENGR:2995; students in the Biomechanics & Biomaterials and Cellular Engineering Focus areas are required to take ENGR:2130. At least two Focus Area Electives must be from the list of Engineering Topics.**