

Bioengineering Premed C Flowchart

| 1ST YEAR | | 2ND YEAR | | 3RD YEAR | | 4TH YEAR | | 5TH YEAR | | | | |
|---|---|--|---|---------------------------------------|---|--|---------------------------------------|---|---|--|---------|----------|
| Fall | Spring | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | | | |
| Orientation & Intro to BIOE BIOE 1000 3 hrs | Computer Applications BIOE 1200 3 hrs | Fund. Life Science II BIOL 2170 4 hrs | Professional Development BIOE 1010 1 hr | Co-op Experience BIOE 3940 1 hr | BIOE Thermo-dynamics BIOE 2100 3 hrs | Intro to Biomechanics BIOE 3110 3 hrs | Co-op Experience BIOE 3940 1 hr | Biomedical Electronics BIOE 3300 3 hrs | Biosignal Processing BIOE 4120 3 hrs | | | |
| General Chemistry I CHEM 1230 4 hrs | General Chemistry II CHEM 1240 4 hrs | Organic Chemistry I CHEM 2410 3 hrs | Organic Chemistry II CHEM 2420 3 hrs | | Biomaterials BIOE 2200 3 hrs | Bioprocessing Laboratory BIOE 3500 3 hrs | | Biotransport Phenomena BIOE 3400 3 hrs | Senior Design Project I BIOE 4410 3 hrs | Senior Design Project II BIOE 4420 3 hrs | | |
| General Chem Lab I CHEM 1280 1 hr | General Chem Lab II CHEM 1290 1 hr | Organic Chem Lab I CHEM 2460 1 hr | Organic Chem Lab II CHEM 2470 1 hr | | Physiology for Bioengineers BIOE 4100 3 hrs | Analysis of BIOE Systems BIOE 4300 3 hrs | | Bioelectronics Laboratory BIOE 4140 2 hrs | BIOE Technical Elective 3 hrs | BIOE Technical Elective 3 hrs | | |
| Calculus I MATH 1850 4 hrs | Calculus II MATH 1860 4 hrs | Multivariate Calculus MATH 2850 4 hrs | Differential Equations MATH 2860 3 hrs | | Statics CIVE 1150 3 hrs | Technical Writing ENGL 2950 3 hrs | | Technical Elective 3 hrs | HUM/SS/MC Elective 3 hrs | HUM/SS/MC Elective 3 hrs | | |
| English Composition ENGL 1110 3 hrs | Physics I PHYS 2130 5 hrs | Physics II PHYS 2140 5 hrs | Cell Biology BIOL 3030 3 hrs | | Electrical Circuits EECS 2300 4 hrs | HUM/SS/MC Elective 3 hrs | | HUM/SS/MC Elective 3 hrs | | HUM/SS/MC Elective 3 hrs | | |
| | | Fund. Life Science Lab II BIOL 2180 1 hr | Cell Biology Laboratory BIOL 3040 2 hrs | | | | | | | | | |
| 15 hours | 17 hours | 18 hours | 13 hours | 1 hour | 16 hours | 15 hours | 1 hour | 14 hours | Optional | 1 hour | 12 hour | 12 hours |

Coursework for deficiencies, medical school requirements, business minor or additional co-op experience