

Bioengineering Lourdes Flowchart

| 1ST YEAR | | 2ND YEAR | | | | 3RD YEAR | | 4TH YEAR | | 5TH YEAR | | |
|---|---|---|--|---|--|---------------------------------------|---|---------------------------------------|--|---------------------------------------|--|---|
| Fall | Spring | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring |
| Calculus I MTH 135 4 hrs | Calculus II MTH 136 4 hrs | Multivariate Calculus MTH 235 4 hrs | Differential Equations MTH 305 3 hrs | Electrical Circuits EECS 2300 4 hrs | Orientation & Intro to BIOE BIOE 1000 3 hrs | Co-op Experience BIOE 3940 1 hr | Coursework for deficiencies, medical school requirements, business minor or additional co-op experience. | Co-op Experience BIOE 3940 1 hr | Intro to Biomechanics BIOE 3110 3 hrs | Co-op Experience BIOE 3940 1 hr | Biosignal Processing BIOE 4120 3 hrs | |
| General Chemistry I CHM 181 4 hrs | General Chemistry II CHM 182 4 hrs | Cell Biology BIO 307 3 hrs | Professional Development BIOE 1010 1 hr | Statics CIVE 1150 3 hrs | BIOE Thermo- dynamics BIOE 2100 3 hrs | | | | Biomedical Electronics BIOE 3300 3 hrs | | Senior Design Project I BIOE 4410 3 hrs | Senior Design Project II BIOE 4420 3 hrs |
| General Chem Lab I CHL 181 1 hr | General Chem Lab II CHL 182 1 hr | PSY 110 Elective 3 hrs | Computer Applications BIOE 1200 3 hrs | HUM/SS/MC Elective 3 hrs | Bioprocessing Laboratory BIOE 3500 3 hrs | | | | Biotransport Phenomena BIOE 3400 3 hrs | | BIOE Technical Elective 3 hrs | BIOE Technical Elective 3 hrs |
| English Composition ENG 101 3 hrs | Fund. Life Science II BIO 201 4 hrs | Technical Writing ENGL 2950 3 hrs | Biomaterials BIOE 2200 3 hrs | HUM/SS/MC Elective 3 hrs | Physiology for Bioengineers BIOE 4100 3 hrs | | | | Bioelectronics Laboratory BIOE 4140 2 hrs | | Technical Elective 3 hrs | Technical Elective 3 hrs |
| COM 100 Elective 3 hrs | Fund. Life Science Lab II BIL 201 1 hr | Physics I PHYS 2130 5 hrs | Physics II PHYS 2140 5 hrs | | | | | | Analysis of BIOE Systems BIOE 4300 3 hrs | | Technical Elective 3 hrs | HUM/SS/MC Elective 3 hrs |
| 15 hours | 14 hours | 18 hours | 15 hours | 13 hours | 12 hours | 1 hour | Optional | 1 hour | 14 hours | 1 hour | 15 hours | 12 hours |