


















Advising Sheet: B.S. IN BME – Biomedical Systems
(Revised March 2019)

Name: _____

ID: _____

| Fall | | | | | Spring | | | | |
|--|-----|-------|-----|--|---|-----|-------|-----|-------------------------------------|
| Freshman: (17) | Hrs | Grade | Sem | Prereq/Coreq | (17) | Hrs | Grade | Sem | Prereq/Coreq |
| Writ 101 Writing 1 | (3) | | | | Writ 102 Writing 2 | (3) | | | |
| Math 261 Calculus 1 | (3) | | | Math ACT 24 | Math 262 Calculus 2 | (3) | | | Math261 (Min C) |
| Chem 105 Chemistry 1 | (3) | | | Math ACT 25, Chem115 | Chem 106  Chemistry 2 | (3) | | | Chem105 (Min C), Chem116 |
| Chem 115 Chemistry 1 Lab | (1) | | | Chem105 | Chem 116  Chemistry 2 Lab | (1) | | | Chem106 (Min C) |
| Bisc 160  Biology 1 | (3) | | | Math ACT 25, Bisc161 | Phys 211 Physic 1 | (3) | | | Math262, Phys221 |
| Bisc 161  Biology 1 Lab | (1) | | | Bisc160 | Phys 221 Physic 1 Lab | (1) | | | Phys211 |
| SS/H/FA | (3) | | | | SS/H/FA | (3) | | | |
| Sophomore: (17) | | | | | (17) | | | | |
| Math 263 Calculus 3 | (3) | | | Math 262 (Min C) | Math 264 Calculus 4 | (3) | | | Math263 (Min C) |
| ENGR 310 Analysis 1 | (3) | | | Math 262 | Math 353 Diff EQ | (3) | | | Math263 |
| Phys 212 Physic 2 | (3) | | | Math 262, Phys 222, Phys 211 | ENGR 360 Circuits | (3) | | | Math262, Phys212 |
| Phys 222 Physic 2 Lab | (1) | | | Phys 212 | Ch E 308  Energy Balance | (2) | | | Ch E 307 (Min C-), Math262 (Min C-) |
| BME 200  Introduction | (2) | | | Math 261, Chem 105 | CSCI 251 Matlab | (3) | | | Math261 |
| Ch E 307  Mass Balance | (2) | | | Chem 105 (Min C) | ENGR 309 Statics | (3) | | | Math263, Phys211 |
| BME 222  Biomaterials | (3) | | | Bisc 160 (Min C-), Chem 105 (Min C-) | | | | | |
| Junior: (16) | | | | | (14) | | | | |
| Chem 221 Organic 1 | (3) | | | Chem 106 (Min C) | ENGR 361 Circuits Lab | (1) | | | ENGR360 |
| Chem 225 Organic 1 Lab | (1) | | | Chem221 | EL E 314  Biomeasures | (1) | | | Math 261, Phys 212 |
| BME 333  Transport | (3) | | | Ch E308, (Min C) Bisc 160 (Min C) | M E 325 Dynamics | (3) | | | ENGR 309 |
| EL E 331  Linear Systems | (3) | | | ENGR 360 (Min C-), Math 353 | BME 444  Biomed Controls | (3) | | | BME 333, ELE 331 |
| ENGR 312 Mech of Materials | (3) | | | ENGR 309 | Track Elective | (3) | | | |
| BME 313  BME Physiology | (3) | | | Chem 105, Math 261, Phys 212, Csci 251 (211) | Track Elective | (3) | | | |
| Senior: (15) | | | | | (14) | | | | |
| BME 461  Senior Design 1 | (2) | | | BME 444 | BME 462  Senior Design 1 | (2) | | | BME 461 |
| ENGR 400  Leadership | (1) | | | | Track Elective | (3) | | | |
| SS/H/FA | (3) | | | | EL E 413 Biosignal Processing | (3) | | | Math 353,CSCI 251 (or CSCI 111) |
| BME 301 Bioinstrumentation | (3) | | | ENGR 360 (Min C), CSCI 251 (Min C) | Econ 310  Engr Economics | (3) | | | |
| BME 311 Biomechanics | (3) | | | | SS/H/FA | (3) | | | |
| SS/H/FA | (3) | | | | | | | | |

Must have at least 6 hrs of Social/Behavioral Science courses, and 9 hrs of Humanities and Fine Arts courses with at least 3 hrs in each; 15 hrs of Social/Behavioral Sciences - Humanities - Fine Arts and other approved courses are required. Must take 3 hrs Engineering Economy serving as a required liberal arts class

| Social/Behavioral Science | Humanities | Fine Arts |
|---------------------------|------------|-----------|
| | | |
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| | | |

Engineering Electives - Any 300+ level engineering course, Track Electives – Departmental (track) approved 300+ level course in Bisc, Chem, Engr

 **An anchor means a course is only taught in a designated Fall/Spring semester. However, the class may be taught in Summer session(s).**

TOTAL = 127 HOURS