# BIOMEDICAL ENGINEERING - Sensors and Devices (129 Hours)

**Effective Fall 2018 (www.engg.ksu.edu/bme)**

**NOTE:** PREREQUISITES ARE SHOWN IN THE COURSE BLOCK.

- a. Technical electives must be selected to complete one of the areas of emphasis. Technical electives must come from the approved BME Technical Electives List.
- b. Humanities and Social Science (H&SS) electives must be selected from the list of courses approved by the College of Engineering.
- c. Students must follow the department C Prerequisite Course Policy.

## Flowchart for fall 2018

### FRESHMAN
- ENGL 100 (3) 
  Expo Writ I
- KIN 110 (3) 
  Public Health
  or ECON 110, Microeconomics
- MATH 220 (4) 
  Anal Geo & Calc I
- PHYS 213 (5) 
  Engg Physics 1
  Pr/Conc: MATH 220
- BME 001 (0) 
  New Student Assem
- BIOL 200 (3) 
  Intro to BME
  Pr/Conc: MATH 220

### SOPHOMORE
- ECE 210 (3) 
  Intro to EE
  Pr/Conc: MATH 220
- ECE 241 (3) 
  Intro to Comp Engg
  Pr: ECE 240, Pr/Conc: MATH 220
- CHM 210 (4) 
  Chem 1
  Pr: CHM 210
- CHM 230 (4) 
  Chem 2
  Pr: CHM 210
- CIS 200 (4) 
  Prog Fund
  Pr: ECE 240, Pr/Conc: MATH 220
- STAT 510 (3) 
  Prob & Stat
  Pr: MATH 221

### JUNIOR
- ENGL 415 (3) 
  Writ Comm
  Pr: ENGL 100 (grade of A or B)
- ECE 410 (3) 
  Cir Thry 1
  Pr: ECE 210, Pr: MATH 340
- ECE 511 (3) 
  Cir Thry 2
  Pr: ECE 410, Pr: MATH 340
- BME 490 (1) 
  BME Design Exp 1
  Pr: PHYS 214, Pr: BME 200, Pr: CHM 230
- BME 491 (2) 
  BME Design Exp 2
  Pr: BME 490, Pr: BME 340
- BME 430 (3) 
  Biomaterials
  Pr: BIOL 198, Pr: CHM 230
- BME 450 (3) 
  Biomaterials
  Pr: BIOL 198, Pr: CHM 230
- BIOL 198 (4) 
  Prin of Biology
  Pr: MATH 221
- BIL 100 (4) 
  Human Body 1
  Pr: CHM 230
- BIL 340 (4) 
  Human Body 2
  Pr: BIL 341
- BME 451 (3) 
  Biomechanics
  Pr: PHYS 214
- BME 490 (1) 
  BME Design Exp 1
  Pr: PHYS 214, Pr: BME 200, Pr: CHM 230
- BME 491 (2) 
  BME Design Exp 2
  Pr: BME 490, Pr: BME 340
- BME 590 (3) 
  Senior Design Exp 1
  Pr: ECE 511, ECE 525
- BME 591 (3) 
  Senior Design Exp 2
  Pr: ECE 590

### SENIOR
- H&SS (3) 
  b
- CHM 531 (3) 
  Organic Chem 1
  Pr: CHM 230
- ECE 647 (3) 
  Digital Filtering
  Pr: ECE 512
- Tech Elect (3) 
  a
- BME 575 (3) 
  Clinical Sys Engg
  Pr: ECE 540
- BME 674 (3) 
  Medical Img
  Pr: ECE 512
BIOMEDICAL ENGINEERING - Computation (129 Hours)
Effective Fall 2018 (www.bme.ksu.edu)

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Students should select these courses as needed to complete the requirements for the K-State 8 Gen Ed Pgm.
c. Students must follow the department C Prerequisite Course Policy.