Advisor:
Printed:

BIOMEDICAL ENGINEERING - Sensors and Devices (128 Hours)

Effective Fall 2019 (revised 9/18/2023) (engg.us/bme)

DOE:
Class:
Flowchart: 4
Hours:

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
ENGL 100 (3) Expo Writ I					ENGL 415 (3) Writ Comm PR: ENGL 100 (grade of A or B)	H&SS (3) b	
ECON 110 (3) Macroeconomics OR KIN 110, Public Health		COMM 105 (2) Public Speaking	STAT 510 (3) Prob & Stat PR: MATH 221	BME 490 (1) BME Design Exp 1 PR: PHYS 214 PR: BME 200 CO: BIOL 441	BME 491 (2) BME Design Exp 2 PR: BME 490 PR: BIOL 441	BME 590 (3) Senior Design Exp 1 PR: BME 491 PR: ECE 540 PR: ENGL 415	BME 591 (2) Senior Design Exp 2 PR: BME 590
MATH 220 (4) Calculus 1	MATH 221 (4) Calculus 2 PR: MATH 220	MATH 340 (4) Diff EQ PR: MATH 221	MATH 222 (4) Calculus 3 PR: MATH 221	ECE 431 (3) Microcontrollers PR: ECE 241 PR: CIS 200		CHM 531 (3) Organic Chem 1 PR: CHM 230	Tech Elect (3) a
BME 001 (0) New Student Assem	PHYS 213 (5) Engg Physics 1 PR/Conc: MATH 221	PHYS 214 (5) Engg Physics 2 PR: PHYS 213 PR: MATH 221	BIOL 198 (4) Prin of Biology	BME 430 (3) Biomaterials PR: BIOL 198 PR: CHM 230	BME 451 (3) Biomechanics PR: BIOl 198 PR: PHYS 213 PR: MATH 222	ECE 647 (3) Digital Filtering PR: ECE 512	Tech Elect (3) a
BME 200 (3) Intro to BME	ECE 210 (3) Intro to EE PR/Conc: MATH 220	ECE 410 (3) Cir Thry 1 PR: ECE 210 PR: MATH 221	ECE 511 (3) Cir Thry 2 PR: ECE 410 PR: MATH 340	ECE 540 (3) Appl Sci Comp PR: STAT 510 PR: CIS 209 or CIS 200	ECE 512 (3) Linear Sys PR: ECE 511 PR: ECE 540	ECE 772/773 (3) Bioinst Thry & Lab	BME 575 (3) Clinical Sys Engg PR: ECE 540
CHM 210 (4) Chem 1	CHM 230 (4) Chem 2 PR: CHM 210	ECE 241 (3) Intro to Comp Engg	CIS 200 (4) Prog Fund PR: ECE 241 PR/Conc: MATH 220	BIOL 441 (4) Human Body 1 PR: CHM 230 PR: BIOL 198	BIOL 442 (4) Human Body 2 PR: BIOL 441	Tech Elec (2) a	BME 674 (3) Medical Img PR: ECE 512

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 selesctd fromthe list of courses approved by the College of Engineering.
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.

Currently Enrolled Passed Retaken Failed Warning