

Updated 6/9/2021

FRESHMAN SOPHOMORE JUNIOR SENIOR General Curricului Introduction to Introduction to Introduction to Biomedical Principles of Biomedical Biomedical the Biomedical Biomedical Engineering Biomedical **Fnaineerina** Biomechanics Biomaterials Engineering Modeling and Approved Approved Engineering Engineering Design Engineering 1easurement and Support Elective Simulation echnical Elective Desian Transport Major Analysis Communication Design Analysis (300/400 level) BMED 101 (1) BMED 102 (1) BMED 212 (3) BMED 310 (4) BMED 410 (4) BMED 420 (4) BMED 425 (4) BMED 430 (2) ME 228 (2)1 $(4)^{3}$ EE 201; CPE/CSC 101, CE 204 or 208; ME 212 CE 204 or 208; MATE $(4)^4$ (MATH 143) (ME 302; ME 341) (BMED 101) (BMED 310) SC 231, 232, or 234 210; BMED 310†) General Curriculum General Curriculum General Curriculu Biomedical Mechanics of **Biomedical** Electric Circuit Engineering Engineering Calculus I Calculus II Calculus III Calculus IV Linear Analysis 1 Materials II Approved Engineering Approved Design II: Senior Theory Physiology CE 207 (2)2 Support Elective Design I echnical Elective Project (300/400 level) MATH 141 (4) MATH 142 (4) MATH 143 (4) MATH 241 (4) MATH 244 (4) EE 201 (3) BMED 460 (4) BMED 456 (4) BMED 455 (4) $(4)^3$ Electronics BMED 310: BIO 231 o (4)⁴ MATH 142 w/min C-(MATH 143) (MATH 143) MATH 244; PHYS 133 232; or graduate (BMED 410) (BMED 455) (MATH 141 w/min C-) EE 321 (3)2 [B4] standing) General Curriculum General Physics General Physics General Physics Engineering Fnaineerina Materials Statistical Bioelectronics & Contemporary Methods for Issues in RMFD Statics Dynamics Engineering Annroved Instrumentation echnical Elective Engineers PHYS 141 (4) PHYS 132 (4) PHYS 133 (4) MF 211 (3) MF 212 (3) MATE 210 (3) (300/400 level) BMED 440 (4) BMED 450 (4) STAT 312 (4) (MATH 141 w/min C PHYS 131, HNRS 131, o PHYS 141; MATH 142. Recom: MATH 241) (CHEM 111 or 124 or PHYS 131 or 141 o MATH 241+; PHYS 13 MATH 241; ME 211 MATH 142† or 182†) $(4)^4$ 127. Recom: Concur MATE 215) HNRS 131) ARCE 211) (BMED 310; EE 201) (Sr Standing) [Area B Elective] [Upper-Division B] Choose one: General Curriculum General General Chemistry Introduction to Programming for luman Anatomy & Mechanics of Chemistry for for Physical Cell & Molecular Engineering Physiology I or II Thermodynamics 1 Fluid Mechanics 1 Approved Physical Science Science and Materials I BIO 231 (5) Support Elective Biology Students and Engineering 1 Engineering II CHEM 124 (4) CHEM 125 (4) BIO 232 (5) ME 341 (3) BIO 161 (4) CSC 231 (2) ME 302 (3) CE 204 (3) $(4)^{3}$ Recom: CHEM 110 BIO 111 or 161; CHEM GE (4) MATH 142; PHYS 12: MATH 242 or 244; ME GE (4) 111, 124, or 127) (ME 211) (ME 212; PHYS 132) 110, 111, 124, 127, or (CHEM 124) ** [B1 & B3] **FB2 & B31** Expository Writing ENGL 133 or 134 (4)** GE (4) GE (4) GE (4) GE (4) GE (4) ** ** Oral Communication COMS 101 or 102 (4)** [A1] Graduation Writing Requirement GWR* Writing Arguments About STEM ENGL 147 (4) [A3] GE (4) ts can attempt to fulfill the requirement after 90 earned units; (Completion of GE A2 with a C- or better) should complete the requirement before senior year) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years 17 17 16 14 16 17 17-18 16 15 16 14 16 TOTAL: 191-192 Notes: Legend: MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET Course Title Major (71-72) * Refer to current catalog for prerequisites. Course # (Units) **One course from each of the following GE areas must be completed: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, Area D Elective, E, F. Upper-Division C should be Support (80) (Prerequisite) taken only after Junior standing is reached (90 units). USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E. General Ed. (40)

[GE Area]

† Course can be taken previously or concurrently.

UNLESS A CONCENTRATION IS DECLARED, THE DEFAULT WILL BE GENERAL CURRICULUM IN BIOMEDICAL ENGINEERING.

¹ME 228 only required for the General Curriculum and the Mechanical Design Concentration.

²CE 207 or EE 321 is required for the General Curriculum. CE 207 is required for the Mechanical Design Concentration. CE 308 (5) may substitute for both CE 204 (3) and 207 (2).

³Refer to current catalog for course selection. Support electives must total 12 units. ⁴Refer to current catalog for course selection. Technical electives must total 12 units.

⁵ENGR 459, 460, 461, and BMED 400 (8 units) or ENGR 463, 464, 465, and BMED 400 (8) may substitute for BMED 455 and BMED 456 (8).