Bioengineering for Pre-Med Students
Catalog Year 2020-2021
129 credit hours
(Additional hours for Pre-Med)

Pre College

FALL First year (15)
MAT 1033 Intermediate Algebra (3)
EGR 1006L Intro to Engineering
Prof (1) [Fa, Sp]
MAC 1105 College Algebra (3)
MAC 2311 Calculus I (4)
MAC 1147 Precalculus (4)

SPRING First year (17)
EGN 1041C Computational Tools for Eng (2) [Fa, Sp]
PHY 2049 & 2049L General Physics w/Lab II (4) [Fa, Sp]
CHM 1045 & 1045L Gen Chemistry w/Lab I (4)
ENC 1101 Composition I (3)

SUMMER First Year (9)
(Summer courses are listed below)

FALL Second year (15)
PHY 2049 & 2049L General Physics w/Lab II (4) [Fa, Sp]
MAC 2312 Calculus II (4)
ENC 1102 Composition II (3)

SPRING Second year (13)
EGN 3433C Design for Manufacturing (3) [Sp]
MAP 2302 Differential Equations (3)

SUMMER Second Year (8)
(Summer courses are listed below)

FALL Third year (16)
BME 3565C Circuits for Bioengineers (3) [Fa]
BME 3404C Human Physiology Engineers I (3) [Fa]
BME 3100C Introduction to Biomaterials (3) [Fa]
BME 3261C Biomechanics (3) [Fa]

SPRING Third year (15)
BME 3970C Signals Syst Bioengineering (3) [SP]
BME 4211C Biomechanics (3) [Fa]

SUMMER Second Year (8)
(Summer courses are listed below)

FALL Fourth year (14)
BME 4884 Biomedical Engineering Senior Design I(2)
Prerequisites are:
EGN 3641C, BME 3101C, BME 3565C, BME 4722,
BME 4800C

SPRING Fourth year (12)
BME 4885 Biomedical Engineering Senior Design II (3)
[Sp]
BME 4513C Data Acquisition and Control in Bioengineering (3) [Sp]

FALL Fourth year (14)
BME 4884 Biomedical Engineering Senior Design I (2)
Prerequisites are:
EGN 3641C, BME 3101C, BME 3565C, BME 4722,
BME 4800C

Special Notes:
1. Please be aware classes may only be offered once a year.
2. Fall, Spring, Summer and no notation means the course may be offered all terms.
3. Unless otherwise stated, a minimum grade of C is required for all courses.
4. Students should be aware of prerequisites for chosen technical electives.
5. Students should be sure one of their social science or humanities include 1 course that is designated with an attribute for College Level Writing Skills (CLWS) and 2 courses that are designated with an attribute for Intercultural Knowledge (INKN) competencies. Students should try to take the state core social science AMH 2020 or POS 2041 to satisfy the Civic Literacy requirement. Please be aware that 1 course may satisfy multiple attributes.
Example: AMH 2010 = Humanities, College Level Writing, and Intercultural Knowledge (GEMM, CLWS, INKN)