

BS Engineering – Biomedical Engineering (BIME) Concentration – 2019

Engineering: 43 core hours + 22 concentration hours

Math/Science : 33 hours

General: 27 hours

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR

Fall

Spring

Fall

Spring

Fall

Spring

Fall

Spring

ENGR 1012 (2)
Engineering Graphics

ENGR 1000 (1)
Intro to Engineering

ENGR 1016 (2)
Introduction to Engineering Design

ENGR 2050 (3)
Computer Applications in Engineering

ENGR 2022 (3)
Statics

ENGR 2000 (1)
Engineering Design/PM I

ENGR 2070 (3)
Materials and Processes

ENGR 2450 (3)
Dynamics

ENGR 3800 (3)
Quality Control for Engineers

BIME 2080 (2)
Foundations of Biomedical Engineering

ENGR 3420 (2)
Engineering Economics

ENGR 3024 (3)
Mechanics of Materials

BIME 4040 (3)
Physiological Systems and Modeling I

ENGR 3000 (2)
Engineering Design/PM II

ENGR 3034 (4)
Thermal and Fluid Systems

BIME 4050 (3)
Physiological Systems and Modeling II

ENGR 4010 (2)
Capstone Design I

Tech Elective (3)

BIME 4200 (4)
Biomedical Instrumentation

ENGR 4020 (2)
Capstone Design II

Tech Elective (3)

BIME 4030 (4)
Biomechanics and Materials

MATH 2171 (4)
Calculus I

MATH 2152 (3)
Calculus II

MATH 2153 (3)
Calculus III

MATH 2154 (4)
Linear Algebra & Diff. Eqns.

ENGR 2514 (4)
Circuit Analysis

ENGR 3050 (3)
Sensors Measurements and Controls

BIOL 1050/1051 (4)
General Biology or 1100/1101 Prin. of Biology I

CHEM 1150/1151 (4)
General Chemistry I

MATH 3307 (3)
Engineering Statistics

Social Sciences Elective (3)

Humanities/Fine Arts Elective (3)

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Humanities/Fine Arts Elective (3)

ENGL 1100 (3)
Composition

ENGL 2201 (3)
Writing about the Disciplines

PHYS 2350 (4)
University Physics I

PHYS 2360 (4)
University Physics II

KINE 1000 (1)
Lifetime Physical Activity

Social Sciences Elective (3)

HLTH 1000 (2)
Health in Modern Society

P/C = pre- or co-requisite
* = C or better required

Credit hours per Semester

Diversity: At least one elective course must be designated as GD (Global Diversity) and at least one elective course must be designated as DD (Domestic Diversity).

Humanities/Fine Arts: Must complete at least one course in the humanities and one course in fine arts.
Social Sciences: Must complete courses in at least two different areas.

Note: This chart is for planning purposes only. It is the student's responsibility to ensure that requirements as detailed in the Undergraduate Catalog are met.

Cumulative Credit hours

17

15/32

17/49

16/65

15/80

16/96

15/111

14/125

Revision Date: June 3, 2019

Concentration-specific courses are only offered in the semester shown on this sheet.