

# BSE – Biomedical Engineering (BIME) Concentration

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR

Engineering  
39 core hours +  
26 concentration hours

Math/Science  
32 hours

General  
31 hours

C: MATH 1083  
or higher

C: PHYS2350  
P: MATH2152

ENGR 2070  
ENGR 2022

ENGR 2000  
P/C: ENGR 3420

ENGR 3000  
ENGR 3420  
BIME 2080  
BIME 4040

C: MATH 2154  
C: PHYS 2360

ENGR 2450  
ENGR 3024  
ENGR 3012 or MENG 4150

**Note:** This chart is for  
planning purposes only.  
Consult your advisor and the  
catalog to ensure that all  
requirements are met.

**ENGR 1012 (2)**  
Engineering Graphics

**ENGR 1000 (1)**  
Introduction to Engineering

**ENGR 1016 (2)**  
Intro to Eng Design

**ENGR 2050 (3)**  
Computer Applications in Engineering

**ENGR 2022 (3)**  
Statics

**ENGR 2450 (3)**  
Dynamics

**ENGR 2000 (1)**  
Engineering Design/PM I

**ENGR 3800 (3)**  
Quality Control for Engineers

**ENGR 2070 (3)**  
Materials and Processes

**BIME 2080(2)**  
Foundations in Biomed Eng

**ENGR 3024 (3)**  
Mechanics of Materials

**ENGR 3000 (2)**  
Engr Design & PM II

**ENGR 2514 (4)**  
Circuit Analysis

**ENGR 3050 (3)**  
Sensors, Measurements And Controls

**ENGR 3012 (4)**  
Thermal and Fluid Systems

**ENGR 4010 (2)**  
Senior Capstone Design I

**ENGR 4020 (2)**  
Senior Capstone Design II

**BIME 4200 (4)**  
Biomedical Instrumentation

**Tech Elective (3)**

**Tech Elective (3)**

**BIME 4030 (4)**  
Biomechanics And Materials

**MATH 2151 (3)**  
Calculus I

**MATH 2152 (3)**  
Calculus II

**MATH 2153 (3)**  
Calculus III

**MATH 2154 (4)**  
DEQ and Linear Algebra

**ENGR 3420 (2)**  
Engineering Economics

**BIOL 1050/1051 or 1100/1101 (4)**  
General Biology

**CHEM 1150/1151 (4)**  
General Chemistry

**PHYS 2350 (4)**  
University Physics I

**PHYS 2360 (4)**  
University Physics II

**BIME 4040 (3)**  
Physiological Systems I

**BIME 4050 (3)**  
Physiological Systems II

Social Sciences Elective (3)

Social Sciences Elective (3)

**ENGL 1100 (3)**  
Composition

**ENGL 1200 (3)**  
Composition

**MATH 3307 (3)**  
Engineering Statistics

**HLTH 1000 (2)**  
Health in Modern Society

**ECON 2113 (3)**  
Microeconomics

**PHIL 2274 or 2275 (3)**  
Ethics

Humanities/ Fine Arts Elective (4)

Social Sciences Elective (3)

Humanities/ Fine Arts Elective (3)

**EXSS 1000 (1)**  
Lifetime Physical Activity

Credit hours per Semester  
Cumulative Credit hours

16

15/31

17/48

16/64

17/81

16/97

15/113

16/128

Dotted line denotes minimum Grade = C

Bold line denotes class with lab

Revision Date: 06132014