

## Bachelor of Science in Biomedical Engineering (Standard Option) B108

Summer 2023 through Spring 2024 – Total Credit Hours: 130

This flowchart is not an official check sheet of degree requirements. It is meant to be used as a supplemental visual guide to be used along with the official University of Oklahoma degree check sheet.

### FRESHMAN

### SOPHOMORE

### JUNIOR

### SENIOR

**Fall**  
16 Hours

**Spring**  
17 Hours

**Fall**  
17 Hours

**Spring**  
18 Hours

**Fall**  
16 Hours

**Spring**  
16 Hours

**Fall**  
15 Hours

**Spring**  
15 Hours

**MATH 1914**  
Calculus I

**MATH 2924**  
Calculus II

**MATH 2934**  
Calculus III

**CS 1213**  
Python  
*Co-req: MATH 1503*

**BME 3722**  
Num. Methods BME  
*Pre-req: BME2333*

**MCAT in APRIL**  
for Pre-med  
Students

**Approved Elective** ★  
Artistic Forms

**Approved Elective** ★  
World Culture

**CAS 1523 / 1533 / 1543**  
First-Year Experience  
(Core V)

**PHYS 2514**  
General Physics for  
Engr & Science  
Majors

**PHYS 2524**  
General Physics for  
Engr & Science  
Majors

**MATH 3113**  
Diff. Equations  
*or MATH 2423*

**BME 3531**  
Biomedical  
Instrumentation Lab

**BME 4813**  
Quantitative  
Physiology

**Approved Elective** ★  
Social Science

**P SC 1113**  
American Federal  
Government

**BME 1421**  
Intro to BME

**BME 2333**  
Biomedical Engr.  
Fundamentals  
*Pre-requisites:  
CHEM1315 &  
CHEM1415 &  
MATH1914/1823 &  
MATH2924/2423 &  
PHYS2514*

**ISE 3293**  
Applied Statistical  
Methods  
*or MATH 2433*

**BME 3533**  
Biomedical  
Instrumentation

**BME 3123**  
Biotransport  
*Pre-req: MATH3113,  
PHYS2524, BME2333*

**BME 4713**  
Biomedical Engr,  
Design I  
*(Senior standing)*

**BME 4823**  
Biomedical Engr.  
Design II  
*(Capstone)*

**ENGL1113**  
English Composition

**ENGL 1213 or  
EXPO 1213**  
English Comp or  
Expository Writing

**BME 2433**  
Signals and Systems  
for Biomedical Engr.

**BME 3143**  
Biomechanics  
*Pre-req: BME2333,  
PHYS2524, MATH3113*

**BME 3181**  
BME Lab 2

**Approved Elective** ★  
Western Culture

**BME Elective**

**CHEM 1315 or  
CHEM 1335**  
General Chemistry

**CHEM 1415 or  
CHEM 1435 or  
CHEM 1425 (H)**  
General Chemistry

**BIOL 1124**  
Molecules, Cells,  
Physiology (Core II)

**ECE 2723**  
Electrical Circuits I  
*Prereq:  
MATH 2924/2423  
PHYS 2524*

**BME 3171**  
BME Lab 1  
*Pre-req: ISE3293*

**BME 3233**  
Biomaterials  
*Add'l Pre-req: BME2333,  
BIOL1124, PHYS 2524*

**Science, Math, Engr.  
Elective**

**Science, Math, Engr.  
Elective**

**ENGR 1411 / 1421 / 3511**  
Pathways to  
Engineering Thinking

**ENGR 2002**  
Prof. Development  
*Prereq: ENGL 1213 &  
Soph Standing*

**HIST 1483 or 1493**  
U.S. History

**BME Elective**

**BME Elective**

**BME and SME electives:**

Visit: <http://ou.edu/coe/sbme/undergraduate>

**No more than 3 hours of BME3440 / 4050 / 3980  
may be used towards degree requirements.**

**PreMed Students contact 325-2457 in Freshman year**

#### Key and Important Notes

★ One of these Gen. Ed. courses must be 3000-4000 level.  HS History Deficiency

Fall or Spring ONLY

Foreign Language: 2 semesters college level or 2 years of high school.

← - - - → Co-requisite

↔ Prerequisite