

State University of New York at Binghamton
Thomas J. Watson College of Engineering and Applied Science
BS in Biomedical Engineering Four-Year-Program

Application Code: 274
(If undecided use: 0229)

FALL 2024

Engineering Design Division

(The freshman year is common to all engineering majors)

Fall

MATH 224/225 Diff Calc/Int Calc(M)
CHEM 111 Chemical Principles (L)
EDD 111 Introduction to Engineering Design
EDD 103 Engineering Communications I

MATH 226/227

Spring

General Education Elective (A, D, G, N)

Biomedical Engineering with MCAT Preparation

FALL 2024

Year 1

Engineering Design Division

(The freshman year is common to all engineering majors)

Fall

MATH 224/225 Calculus I (M)
CHEM 111 Chemical Principles (L)
EDD 111 Introduction to Engineering Design
EDD 103 Engineering Communications I
General Education Elective (A, D, G, N)

Body/Wellness

Spring

MATH 226/227 Calculus II (MATH 225)
PHYS 131 General Physics I Calculus-based (MATH 225)
EDD 112 Introduction to Engineering Analysis (J) (EDD 111)
EDD 104 Engineering Communications II (EDD 103)
BIOL 113 Intro to Cell & Molecular Biol, or
General Education Elective (A, D, G, N)

Body/Wellness

Year 2

Fall

** Students who are planning on taking the MCAT, must choose two additional BME depth electives from any of the other BME concentration.

BME Major Concentrations:

Students are required to select an area of emphasis to gain more in-depth knowledge and specialty training in biomedical engineering. Students must take any two courses from the list of courses prescribed in each concentration to declare their concentration. Courses chosen from a concentration fulfill the BME Depth Electives.

Biomaterials and Bio-pharmaceutical Technology Concentration (Choose two courses to declare this concentration)

- BME 486 Neuroengineering (Spring) (BME 201)
- BME 483 Tissue Engineering (Fall) (BME 313, BME 201, BIOL 113) (Co-req: BME 433)
- BME 473 Advanced B