

Student Information

Name: _____ OSU Email: _____

Suggested Curriculum

This should be used as a **guide** only. Semester offerings are subject to change.

Year	Autumn	Spring
1	___ CHEM 1210 (<i>Gen Chem 1</i>) 5 hr ___ MATH 1151 (<i>Calculus 1</i>) 5 hr ___ ENGR 1181 (<i>Fundamentals of Engr 1</i>) 2 hr ___ ENGR 1100 (<i>Engineering Survey</i>) 1 hr ___ General Education 3 hr	___ CHEM 1220 (<i>Gen Chem 2</i>)..... 5 hr ___ MATH 1172 (<i>Engineering Math A</i>)..... 5 hr ___ ENGR 1182 (<i>Fundamentals of Engr 2</i>) 2 hr ___ PHYSICS 1250 (<i>Mechanics, Thermal, Waves</i>).... 5 hr
2	___ MATH 2173 (<i>Eng Math B</i>)..... 3 hr ___ BIOLOGY 1113 (<i>Gen Biology</i>)..... 4 hr ___ BIOMEDE 2000 (<i>Intro to BME</i>)..... 3 hr ___ MECHENG 2040 (<i>Statics & Mechanics</i>)..... 4 hr ___ BIOMEDE 2800 (<i>Anatomy for Engineers</i>)..... 3 hr	___ MATH 2174 (<i>Linear Algebra & Diff EQ</i>)..... 3 hr ___ PHYSICS 1251 (<i>E&M, Optics, Modern Phys</i>).... 5 hr ___ BME 2200 OR BIOCHEM 4511 3 hr ___ MATSCEN 2010 (<i>Intro to Engr Materials</i>)..... 3 hr ___ STAT 3450 (<i>Prob and Stat</i>)..... 2 hr ___ BIOMEDE 2001 (<i>Prof Development</i>)..... 1 hr
3	___ BIOMEDE 2700 (<i>Num Simulation in BME</i>)..... 2 hr ___ MECHENG 3500 (<i>Thermo</i>)..... 3 hr ___ Career Course 3 hr ___ †BIOMEDE4X10 (<i>Domain 1</i>)..... 3 hr ___ BIOMEDE 3701 (<i>BME Labs</i>)..... 2 hr ___ General Education 3 hr	___ BIOMEDE 3702 (<i>Meas & Instrum Lab</i>)..... 3 hr ___ † BIOMEDE 4X10 (<i>Domain 2</i>)..... 3 hr ___ General Education 3 hr ___ General Education 3 hr ___ Career Course 3 hr
4	___ BIOMEDE 4901 (<i>Design 1</i>)..... 3 hr ___ Career Course (<i>Engineering</i>)..... 3 hr ___ †BIOMEDE4X10 (<i>Domain 3</i>)..... 3 hr ___ General Education 3 hr ___ BIOMEDE 3703 (<i>Quantitative Physiol</i>)..... 3 hr	___ BIOMEDE 4902 (<i>Design 2</i>)..... 3 hr ___ Career Course (<i>Engineering</i>)..... 3 hr ___ Career Course (<i>BME 5000-level</i>)..... 3 hr ___ General Education 3 hr ___ General Education 3 hr ___ General Education 3 hr

Total Hours to complete the degree program = 131

Program Options

†Domain Options (choose 3)

BIOMEDE 4110 (*Bioimaging*)

BIOMEDE 4210 (*Biotransport*)

BIOMEDE 4310 (*Biomaterials*)

BIOMEDE 4410 (*Biomechanics*)

BIOMEDE 4510 (*Molecular, Cellular, & Tissue Eng*)

BIOMEDE 4610 (*Biomedical Micro-/Nano-Tech*)

Acceptance Criteria

Acceptance into the Biomedical Engineering major is limited and will depend on the outcome of application process that includes information about cumulative point-hour ratio (CPHR) upon completion of the following pre-major courses: Chem 1210/1220; Math 1151/1172; Physics 1250; ENGR 1181/1182; essay. Applications are accepted during spring term.

Career Electives

Select **15 hours total** from the approved list. **6 hours** must be in Engineering. An **additional 3 hours** must be in Biomedical Engineering at the 5000-level or higher.

Career Elective 1

Career Elective 2

Career Elective 3 (Engineering)

Career Elective 4 (Engineering)

Career Elective 5 (BME 5000-level)

General Education Requirement

Writing and Communication

English 1110.xx 3 hr

Second Writing Course 3 hr

Social Science

Must choose each course from a distinct subgroup of this category.

_____ 3 hr

_____ 3 hr

Literature

_____ 3 hr

Visual and Performing Arts

_____ 3 hr

Historical Study

_____ 3 hr

Second Historical Study or Cultures and Ideas

_____ 3 hr

Social Diversity in the U.S. or Global Diversity

Some courses may overlap with another GE category, See course list.

_____ 0 / 3 hr

Ethics

Some courses may overlap with another GE category, See course list.

_____ 0 / 3 hr

Optional: Foreign Language

Foreign Language 1103 Course: credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be used to satisfy the Cultures & Ideas Gen Ed category.

Foreign Language Minor Courses: completion of a foreign language minor permits a student to overlap up to 6 credit hours between the Gen Ed and minor. A curricular petition must be submitted to the student's program, which will forward it to the college for review. The courses must meet the spirit of the Gen Ed category for which overlap is requested.

Optional: University Capstone

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any subgroup. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

See the list of approved general education courses for additional details: www.advising.engineering.osu.edu.