

**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 2177 ( <i>Ord &amp; Part Diff Eq</i> )..... 4 hr ___ MATSCEN 2010 ( <i>Intro to Engr Materials</i> )..... 3 hr ___ BIOLOGY 1113 ( <i>Gen Biology</i> )..... 4 hr ___ BIOMEDE 2000 ( <i>Intro to BME</i> )..... 3 hr ___ MECHENG 2040 ( <i>Statics &amp; Mechanics</i> )..... 4 hr	___ CHEM 2310 ( <i>Intro to Organic Chem</i> )..... 4 hr ___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Phys</i> ).... 5 hr ___ MECHENG 3500 ( <i>Fluid, Thermo, Heat</i> )..... 3 hr ___ ANATOMY 2220 ( <i>Physio/Anat Lab</i> )..... 4 hr ___ BIOMEDE 2700 ( <i>Num Simulation in BME</i> )..... 2 hr
3	___ STAT 3460 or 3470 ( <i>Prob and Stat 1</i> )..... 3 hr ___ BIOCHEM 4511 ( <i>Biochemistry</i> )..... 4 hr ___ EEOB 3510 ( <i>Animal Cell &amp; Develop</i> )..... 3 hr ___ †BIOMEDE4X10 ( <i>Domain 1</i> )..... 3 hr ___ †† BIOMEDE 471X ( <i>Domain 1 Lab</i> )..... 0.5 hr ___ General Education ..... 3 hr	___ BIOMEDE 3702 ( <i>Meas &amp; Instrum Lab</i> )..... 2 hr ___ BIOMEDE 3703 ( <i>Quantitative Physiol</i> )..... 3 hr ___ † BIOMEDE 4X10 ( <i>Domain 2</i> )..... 3 hr ___ †† BIOMEDE 471X ( <i>Domain 2 Lab</i> )..... 0.5 hr ___ General Education ..... 3 hr ___ General Education ..... 3 hr
4	___ BIOMEDE 4901 ( <i>Design 1</i> )..... 3 hr ___ BIOMEDE 4900 ( <i>Prof Development</i> )..... 1 hr ___ Technical Elective 1..... 3 hr ___ †BIOMEDE4X10 ( <i>Domain 3</i> )..... 3 hr ___ †† BIOMEDE 471X ( <i>Domain 3 Lab</i> )..... 0.5 hr ___ General Education ..... 3 hr	___ BIOMEDE 4902 ( <i>Design 2</i> )..... 3 hr ___ Technical Elective 2..... 3 hr ___ BIOMEDE 5XXX ( <i>Upper-Level BME Course</i> )... 3 hr ___ General Education ..... 3 hr ___ General Education ..... 3 hr ___ General Education ..... 3 hr

**Total Hours to complete the degree program = 131.5**

**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*)

**††Domain Labs**

- BIOMEDE 4711 (*Bioimaging Lab*)
- BIOMEDE 4712 (*Biotransport Lab*)
- BIOMEDE 4713 (*Biomaterials Lab*)
- BIOMEDE 4714 (*Biomechanics Lab*)
- BIOMEDE 4715 (*Molecular, Cellular, & Tissue Eng Lab*)
- BIOMEDE 4716 (*Biomedical Micro-/Nano-Tech Lab*)

**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.

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## Technical and Other Electives

Must be courses in the College of Engineering, at the 3000-level or higher (unless previously approved below 3000-level)

Technical Elective 1

Technical Elective 2

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Must be in Department of Biomedical Engineering at 5000-level

BIOMEDE 5XXX

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## 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](http://www.advising.engineering.osu.edu).