

**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<br>___ MATH 1140 ( <i>Calculus 1 with review pt 1</i> ) ..... 4 hr<br>___ ENGR 1181 ( <i>Fundamentals of Engr 1</i> ) ..... 2 hr<br>___ ENGR 1100 ( <i>Engineering Survey</i> ) ..... 1 hr<br>___ General Education ( <i>Foundation</i> ) ..... 3 hr   | ___ CHEM 1220 ( <i>Gen Chem 2</i> ) ..... 5 hr<br>___ MATH 1141 ( <i>Calculus 1 with review pt 2</i> ) ..... 4 hr<br>___ ENGR 1182 ( <i>Fundamentals of Engr 2</i> ) ..... 2 hr<br>___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> ) ..... 5 hr<br>___ Gen Ed 1201 ( <i>Launch Seminar</i> ) ..... 1 hr                                      |
| 2    | ___ MATH 1172 ( <i>Engineering Math A</i> ) ..... 5 hr<br>___ BIOLOGY 1113 ( <i>Gen Biology</i> ) ..... 4 hr<br>___ BIOMEDE 2800 ( <i>Anatomy for Engineers</i> ) ..... 3 hr<br>___ MATSCEN 2010 ( <i>Intro to Engr Materials</i> ) ..... 3 hr<br>___ General Education ( <i>Foundation</i> ) ..... 3 hr  | ___ MATH 2173 ( <i>Eng Math B</i> ) ..... 3 hr<br>___ BIOMEDE 2000 ( <i>Intro to BME</i> ) ..... 3 hr<br>___ MECHENG 2040 ( <i>Statics &amp; Mechanics</i> ) ..... 4 hr<br>___ BME 2200 ( <i>Cells and Molecules</i> ) ..... 3 hr<br>___ STAT 3450 ( <i>Prob and Stat</i> ) ..... 2 hr<br>___ General Education ( <i>Foundation</i> ) ..... 3 hr |
| 3    | ___ MATH 2174 ( <i>Linear Algebra &amp; Diff EQ</i> ) ..... 3 hr<br>___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Phys</i> ) ..... 5 hr<br>___ Career Course ..... 3 hr<br>___ BIOMEDE 3701 ( <i>BME Labs</i> ) ..... 2 hr<br>___ BIOMEDE 2001 ( <i>Prof Development</i> ) ..... 1 hr<br>___ General Education ( <i>Foundation</i> ) ..... 3 hr | ___ BIOMEDE 3702 ( <i>Meas &amp; Instrum Lab</i> ) ..... 3 hr<br>___ †BIOMEDE4X10 ( <i>Domain 1</i> ) ..... 3 hr<br>___ General Education ( <i>Foundation</i> ) ..... 3 hr<br>___ BIOMEDE 2700 ( <i>Num Simulation in BME</i> ) ..... 2 hr<br>___ MECHENG 3500 ( <i>Thermo</i> ) ..... 3 hr<br>___ Career Course ..... 3 hr                      |
| 4    | ___ BIOMEDE 4901 ( <i>Design 1</i> ) ..... 3 hr<br>___ † BIOMEDE 4X10 ( <i>Domain 2</i> ) ..... 3 hr<br>___ Career Course ( <i>Engineering</i> ) ..... 3 hr<br>___ General Education ( <i>Theme: Citizenship for Just</i> ) ..... 4 hr<br>___ BIOMEDE 3703 ( <i>Quantitative Physiol</i> ) ..... 3 hr   | ___ BIOMEDE 4902 ( <i>Design 2</i> ) ..... 3 hr<br>___ †BIOMEDE4X10 ( <i>Domain 3</i> ) ..... 3 hr<br>___ Career Course ( <i>Engineering</i> ) ..... 3 hr<br>___ Career Course ( <i>BME 5000-level</i> ) ..... 3 hr<br>___ General Education ( <i>Theme: Student Choice</i> ) ..... 4 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*)

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## 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)

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## General Education Requirement

### General Education Launch Seminar

1 hr

### Foundations: Writing and Information Literacy

3 hr

### Foundations: Mathematical & Quantitative Reasoning/Data Analysis

*Fulfilled by MATH 1151 Degree Requirement*

0-5 hr

### Foundations: Literary, Visual and Performing Arts

3 hr

### Foundations: Historical & Cultural Studies

3 hr

### Foundations: Natural Science

*Fulfilled by CHEM 1210 Degree Requirement*

0-5 hr

### Foundations: Social & Behavioral Sciences

3 hr

### Foundations: Race, Ethnic and Gender Diversity

3 hr

### Theme: Citizenship for a Diverse & Just World ^^

4-6 hr

### Theme: Student Choice ^^ \*

4-6 hr

### General Education Reflection

*Embedded into Major Capstone Degree Requirement*

0 hr

### ^^ Theme Credit Hours

Themes may be completed by (one) 4 credit hour course or (two) 3 credit hour courses. We recommend one 4 credit hour course for degree planning purposes.

### \* Theme: Student Choice

Courses in *Health & Wellness Theme* can overlap with Career Elective

Student Choice options will be updated on an ongoing basis.

For the most up-to-date listing of Theme options, please see the Undergraduate Education website on the New General Education requirements: <https://ugeducation.osu.edu/general-education-information-students>

**Approved general education courses for each category can be found in the following places:**

- [classes.osu.edu](https://classes.osu.edu)
- [Schedule Planner](#)
- [Search for Classes](#)

(filter by *Term*, *Campus*, *Class Attribute* “General Education – New”, and *Class Attribute Value* “GEN Foundation” or “GEN Theme”)