

## Student Information

Name: \_\_\_\_\_ OSU ID: \_\_\_\_\_ OSU Admit Term: \_\_\_\_\_

Phone: \_\_\_\_\_ Email (*name.number@osu.edu*): \_\_\_\_\_

## 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 I</i> )..... 5 hr ____ MATH 1151 ( <i>Calculus I</i> ) ..... 5 hr ____ ENGR 1181.xx ( <i>Fundamentals of ENGR I</i> ) ..... 2 hr ____ ENGR 1100.15 ( <i>Engineering Survey</i> ) ..... 1 hr ____ General Education ..... 3 hr	____ CHEM 1220 ( <i>Gen Chem II</i> )..... 5 hr ____ MATH 1172 ( <i>Engineering Math A</i> )..... 5 hr ____ ENGR 1182.xx ( <i>Fundamentals of ENGR II</i> )..... 2 hr ____ Engr 1221..... 2 hr ____ General Education..... 3 hr
2	____ CHEM 2510 ( <i>Organic Chemistry I</i> )..... 4 hr ____ MATH 2173 ( <i>Mathematical Topics for Engineers</i> ) 3 hr ____ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> )..... 5 hr ____ CBE 2100 ( <i>Chemical Engineering Seminar</i> )..... 1 hr ____ CBE 2200 ( <i>Process Fundamentals</i> )..... 3 hr	____ CHEM 2520 ( <i>Organic Chemistry II</i> )..... 4 hr ____ CHEM 2540 ( <i>Organic Chemistry Lab I</i> )..... 2 hr ____ CBE 2345 ( <i>Computational Methods for ChE</i> )..... 3 hr ____ CBE 3508 ( <i>Thermodynamics I</i> )..... 3 hr ____ General Education..... 3 hr
3	____ CBE 2420 ( <i>Transport Phenomena I</i> )..... 3 hr ____ CBE 2523 ( <i>Separation Processes</i> )..... 3 hr ____ CBE 3509 ( <i>Thermodynamics II</i> )..... 3 hr ____ CBE 5779 or Math/Stats Technical Elective 3 hr ____ General Education..... 3 hr	____ CBE 3421 ( <i>Transport Phenomena II</i> )..... 3 hr ____ CBE 3610 ( <i>Kinetics and Reactor Design</i> )..... 3 hr ____ CBE 3730 ( <i>Unit Operations Lab I</i> )..... 1 hr ____ Technical Elective..... 3 hr ____ Technical Elective..... 3 hr ____ General Education..... 3 hr
4	____ CHEM 4300 ( <i>Physical Chemistry I</i> )..... 3 hr ____ CBE 3422 ( <i>Transport Phenomena III</i> )..... 3 hr ____ CBE 3731 ( <i>Unit Operations Lab II</i> )..... 1 hr ____ CBE 4760 ( <i>Process Design, Econ, &amp; Strategy</i> )..... 3 hr ____ General Education..... 3 hr ____ General Education..... 3 hr	____ CBE 3732 ( <i>Unit Operations Lab III</i> )..... 2 hr ____ CBE 4624 ( <i>Process Dynamics and Control</i> )..... 3 hr ____ CBE 4755 ( <i>Process Safety</i> )..... 2 hr ____ CBE 4764 ( <i>Process Sim &amp; Product Eng</i> )..... 3 hr ____ Technical Elective..... 3 hr ____ General Education..... 3 hr

**Total Hours to complete the degree program = 127**

## Program Options

Students wishing to complete the biomolecular focus will substitute Biochemistry 4511 in place of Chemistry 2520.

## Acceptance Criteria

Acceptance into this program is based upon a holistic review of the student's record including essays. Please review admission/acceptance criteria on the College of Engineering website:

<https://advising.engineering.osu.edu/currentstudents/applying-your-major>

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## Technical and Other Electives

Students have the option to complete a biomolecular, environmental, or polymer focus for their technical elective plan. Each focus will require the completion of two approved courses in CBE plus one additional course in CBE or in another department. All students will also be required to complete one math or statistics technical elective.

\_\_\_\_ CBE XXXX.....(3 hr)  
\_\_\_\_ CBE XXXX.....(3 hr)  
\_\_\_\_ CBE 5779 or Math/Stat elective.....(2-4 hr)  
\_\_\_\_ Additional Course XXXX .....(2-4 hr)  
\_\_\_\_ **Total Hours (minimum of 12 are required)**

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## General Education Requirement

### Writing and Communication

English 1110.xx 3 hr  
Second Writing Course 3 hr

### Social Science

*Only one course per Social Science group may count.*

\_\_\_\_ 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 United States

*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

### Foreign Language

#### *Pre-approved substitutions*

- A. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
- B. Completion of a foreign language minor can be substituted for two Gen Ed courses: one course as a Social Science, (Individuals & Groups or Organizations & Politics subgroups only) and one course as either a Literature or a Cultures & Ideas.

Parameters: Students must choose either Substitution A OR Substitution B. Both substitutions cannot be applied simultaneously.

### University Capstone (Cross-Disciplinary Seminar)

#### *Pre-approved substitutions*

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. 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).