

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 or CSE 1222(<i>Programming</i>)..... 2-3 hr ___ General Education..... 3 hr
2	___ CHEM 2510 (<i>Organic Chemistry I</i>)..... 4 hr ___ CBE 2200 (<i>Process Fundamentals</i>)..... 4 hr ___ MATH 2177 (<i>Mathematical Topics for Engineers</i>) 4 hr ___ PHYSICS 1250 (<i>Mechanics, Thermal, Waves</i>)..... 5 hr	___ CHEM 2520 (<i>Organic Chemistry II</i>)..... 4 hr ___ CBE 2420 (<i>Transport Phenomena I</i>)..... 4 hr ___ CBE 2523 (<i>Separation Processes</i>)..... 3 hr ___ PHYSICS 1251 (<i>E&M, Optics, Modern Phys</i>)..... 5 hr
3	___ CHEM 4300 (<i>Physical Chemistry I</i>)..... 3 hr ___ CBE 3508 (<i>Thermodynamics</i>)..... 4 hr ___ CBE 3521 (<i>Transport Phenomena II</i>)..... 4 hr ___ Math or Stats Technical Elective..... 3 hr ___ General Education..... 3 hr	___ CHEM 2540 (<i>Organic Chemistry Lab I</i>)..... 2 hr ___ CBE 3610 (<i>Kinetics and Reactor Design</i>)..... 4 hr ___ CBE 3631 (<i>Unit Operations Lab I</i>)..... 2 hr ___ Technical Elective..... 3 hr ___ General Education 3 hr ___ General Education 3 hr
4	___ CBE 3632(<i>Unit Operations Lab II</i>)..... 2 hr ___ CBE 4760 (<i>Process Design, Econ, & Strategy</i>)..... 4 hr ___ CBE 4764 (<i>Process Sim & Product Eng</i>)..... 4 hr ___ BIOLOGY 1113 (<i>Energy Transfer & Develop</i>).....4 hr ___ General Education 3 hr	___ CBE 4624 (<i>Process Dynamics and Control</i>)..... 3 hr ___ Technical Elective..... 3 hr ___ Technical Elective..... 3 hr ___ General Education 3 hr ___ General Education 3 hr

Total Hours to complete the degree program = 132-133

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 on a holistic review of the student's record including an essay. Admission to major is considered only after a student has taken at least 12 credit hours of letter grade in their undergraduate career at OSU and have completed the following courses: MATH 1151, 1172; ENGR 1181, 1182; Chem 1220, (or their equivalents). Applications are accepted Autumn and Spring semester ONLY. Students must complete the online CBE Major Application the semester in which the student is completing their pre-major requirements (i.e. the semester before the student wants to enter the major).

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)
___ Math/Stat XXXX.....(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.