

**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	___ 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 ___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> ) ___ 5 hr ___ General Education _____ 3 hr	___ MATH 1172 ( <i>Engineering Math A</i> ) _____ 5 hr ___ ENGR 1182 ( <i>Fundamentals of Engr 2</i> ) _____ 2 hr ___ CHEM 1210 ( <i>Gen Chem 1</i> ) _____ 5 hr ___ ENGR 1221 <sup>1</sup> ( <i>Computer Programming</i> ) _____ 2 hr ___ General Education _____ 3 hr
2	___ MATH 2177 <sup>2</sup> ( <i>Math Topics for Engineers</i> ) _____ 4 hr ___ MECHENG 2040 <sup>3</sup> ( <i>Statics &amp; Mechanics</i> ) _____ 4 hr ___ CHEM 1220 ( <i>Gen Chem 2</i> ) _____ 5 hr ___ General Education _____ 3 hr	___ CIVILEN 2050 <sup>4</sup> ( <i>Prob &amp; Data Interpretation</i> ) ___ 3 hr ___ CIVILEN 2090 ( <i>Prof Aspects</i> ) _____ 1 hr ___ MECHENG 2030 ( <i>Dynamics</i> ) _____ 3 hr ___ <b>ENVENG 2100</b> ( <i>Analytical Methods</i> ) _____ 3 hr ___ CHEM 2510 <sup>5</sup> ( <i>Organic Chemistry</i> ) _____ 4 hr ___ General Education _____ 3 hr
3	___ MICRBIO 4000.0x ( <i>Microbiology</i> ) _____ 4 hr ___ CIVILEN 3130 ( <i>Fluid Mechanics</i> ) _____ 3 hr ___ ENVENG 3200 ( <i>Fund Env Engr</i> ) _____ 3 hr ___ ENR 3000/3001 <sup>2</sup> ( <i>Soil Science</i> ) _____ OR EARTHSCI 1121 ( <i>Dynamic Earth</i> ) _____ 4 hr ___ General Education _____ 3 hr	___ CIVILEN 2060 ( <i>Numerical Analysis Methods</i> ) ___ 4hr ___ CIVILEN 3080 ( <i>Econ Eval &amp; Optimization</i> ) ___ 3 hr ___ CIVILEN 3160 ( <i>Water Resources Engr</i> ) _____ 3 hr ___ <b>ENVENG 3210</b> ( <i>Unit Operations</i> ) _____ 3 hr ___ General Education _____ 3 hr
4	___ <b>ENVENG 5110</b> ( <i>Biotechnology</i> ) _____ 3 hr ___ <b>ENVENG 4200</b> ( <i>Unit Ops Lab</i> ) _____ 1 hr ___ <b>CHBE 5771</b> ( <i>Air Pollution</i> ) _____ 3 hr ___ Technical Elective _____ 3 hr ___ Technical Elective _____ 3 hr ___ General Education _____ 3 hr	___ ENVENG 4090 ( <i>Capstone Design</i> ) _____ 3 hr ___ <b>ENVENG 5170</b> ( <i>Pollution Prev</i> ) _____ 3 hr ___ Technical Elective _____ 3 hr ___ Technical Elective _____ 3 hr ___ General Education _____ 3 hr

**Total Hours to complete the degree program = 130.** Please note, course schedules may not follow this plan exactly. This is a reference guide for students. Students should contact their advisor for academic guidance. **Courses in BOLD are only offered once per year.**

<sup>1</sup> CSE 1222 is an acceptable substitution for ENGR 1221

<sup>2</sup> MATH 2173+2174 or MATH 2568+2415 are acceptable substitutions for MATH 2177.

<sup>3</sup> MECHENG 2010+2020 are acceptable substitutions for MECHENG 2040

<sup>4</sup> STATISTICS 3460 or 3470 are acceptable substitutions for CIVILEN 2050.

<sup>5</sup> CHEM 2310 is an acceptable substitution for CHEM 2510.

Please contact a CEGE advisor if you have questions or concerns about any of the listed substitutions.

**Please note that students who need preparatory work before beginning Math 1151 will need additional time to complete this curriculum.** The outlined curriculum is not a prescribed plan and is intended to be used as a guide to assist students in progressing through the curriculum with respect to prerequisite courses. Course offerings are subject to change. Please check the online course bulletin and master schedule for prerequisite requirements & course availability.

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## Acceptance Criteria

Acceptance into the Environmental Engineering major is based on a holistic review of a written application, cumulative point hour ratio (CPHR) and eligibility point hour ratio (EPHR). Students with at least a 3.0 EPHR and 2.0 CPHR are guaranteed admission. Applications can be submitted upon completion of or enrollment in Engineering 1100 and English 1110 and completion of or enrollment in all EPHR courses or their equivalent. EPHR courses include Engineering 1181 and 1182, Math 1151 and 1172, Physics 1250, Chemistry 1210 and 1220, and Mechanical Engineering 2040. Applications are accepted during Autumn and Spring terms.

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## Technical and Other electives

Students are required to complete 12 hours of technical electives, chosen in consultation with a faculty advisor upon admission to the major. Students must complete six hours of coursework from *Area 1*, and one course from *Area 2*. The remaining coursework may come from any Area as outlined on the Technical Elective Guide.

Area 1 Technical Elective:	_____	Cr. Hrs.	_____
Area 2 Technical Elective:	_____	Cr. Hrs.	_____
Technical Elective:	_____	Cr. Hrs.	_____
Technical Elective:	_____	Cr. Hrs.	_____

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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.*

Economics 2001.xx 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

*Course may overlap with another general education category.*

\_\_\_\_\_ 0 / 3 hr

### Ethics

*Ethics courses listed below may overlap with their corresponding general education category.*

*Social Science, Individual & Groups sub-category: Economics 3048.*

*Social Science, any sub-category: Sociology 3302, Sociology 3464.*

*Cultures & Ideas: Bioethics 2010, Comparative Studies 2341,*

*Philosophy 1332, Philosophy 1337, Philosophy 1338.*

\_\_\_\_\_ 0 / 3 hr

### Foreign Language

#### *Pre-approved substitutions*

- Completion by enrollment in a foreign language sequence through 1103, or enrollment in a foreign language course with a prerequisite of 1103, can be substituted for one general education course in Cultures and Ideas.
- Completion of a foreign language minor permits a student to overlap up to 6 credit hours between the General Education Requirements 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.

### 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.

A list of approved general education courses can be found at [engineering.osu.edu/major](http://engineering.osu.edu/major).