

## Student Information

First Name: \_\_\_\_\_ Last Name.# \_\_\_\_\_

## Suggested Curriculum

This should be used as a **guide** only. Semester offerings are subject to change.

Year	Autumn	Spring
1	___ MATH 1151 (Calculus 1) _____ 5 hr ___ ENGR 1181 (Fundamentals of Engr 1) _____ 2 hr ___ PHYSICS 1250 (Mechanics, Thermal, Waves) _____ 5hr ___ ENGR 1100 (Engineering Survey) _____ 1 hr ___ GEN Writing and Information Literacy _____ 3 hr ___ GEN Launch Seminar _____ 1 hr	___ MATH 1172 (Engineering Math A) _____ 5 hr ___ MECHENG 2010 (Statics) _____ 2 hr ___ ENGR 1182 (Fundamentals of Engr 2) _____ 2 hr ___ CIVILEN 2405 (Graphics for CE) _____ 1 hr ___ ENGR 1221 <sup>1</sup> (Programming) _____ 2 hr ___ GEN Citizenship for a Just, Diverse World _____ 4 hr
2	___ MATH 2177 <sup>2</sup> (Math Topics for Engineers) _____ 4 hr ___ MECHENG 2020 (Mech of Materials) _____ 3 hr ___ CIVILEN 2050 <sup>3</sup> (Prob & Data Interpretation) _____ 3 hr ___ CIVILEN 2810 (Constr Engr & Mgmt) _____ 3 hr ___ CHEM 1250 <sup>4</sup> (Gen Chemistry for Engineers) _____ 4 hr ___ CIVILEN 2090 (Professional Aspects) _____ 1 hr	___ CIVILEN 2060 (Numerical Analysis Methods) _____ 4 hr ___ CIVILEN 3510 (Civil Engineering, Materials) _____ 3 hr ___ CIVILEN 3310 (Struct Engr. Principles) _____ 3 hr ___ CIVILEN 3540 (Geotech. Engineering) <b>AND</b> ___ CIVILEN 3541 (Geotechnical Engineering Lab) _____ 3 hr ___ MECHENG 2030 (Dynamics) _____ 3 hr
3	___ CIVILEN 3700 (Transp Engr & Analysis) _____ 3 hr ___ CIVILEN 3130 (Fluid Mechanics) _____ 3 hr ___ CIVILEN 2410 (Intro to Geomatics/Surveying) _____ 3hr ___ CIVILEN 4320 (Structural Steel Design) <b>OR</b> ___ CIVILEN 4350 (Reinforced Concrete Design) _____ 3 hr ___ ENVEN 3200 (Fundamentals of Envir Engr) _____ 3 hr	___ CIVILEN 3160 (Water Resources Engr.) _____ 3 hr ___ CIVILEN 3080 (Economics & Optimization) _____ 3 hr ___ Additional Science Elective 1 _____ 4 hr ___ Technical Elective 1 _____ 3 hr ___ Technical Elective 2 _____ 3 hr
4	___ <b>CIVILEN 4001 (CE Capstone 1)</b> _____ 2 hr ___ Additional Science Elective 2 <sup>5</sup> _____ 4 hr ___ Technical Elective 3 _____ 3 hr ___ GEN Race, Ethnicity, Gender Diversity _____ 3 hr ___ GEN Social and Behavioral Sciences _____ 3 hr ___ GEN Historical and Cultural Studies _____ 3 hr	___ <b>CIVILEN 4002 (CE Capstone 2)</b> _____ 2 hr ___ Technical Elective 4 _____ 3 hr ___ Technical Elective 5 _____ 3 hr ___ GEN Literary, Visual, Performing Arts _____ 3 hr ___ GEN Thematic Pathway _____ 4 hr

**Total Hours to complete the degree program = 131.** 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, 1223, or 1224 are acceptable substitutes for ENGR 1221.

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

<sup>3</sup> STATISTICS 3460 or 3470 are acceptable substitutions for CIVILEN 2050.

<sup>4</sup> CHEM 1210 or 1206+1208 is an acceptable substitution for CHEM 1250.

<sup>5</sup> Additional Science Elective 2 may not be necessary. Please see CECE Advisor regarding your specific plan.

Please contact a CECE 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 course catalog for prerequisite requirements and course availability.

## Acceptance Criteria

Acceptance into the Civil Engineering major is based on a holistic review of a written application and academic performance. Applications are accepted during Autumn and Spring terms. Only CPHR (cumulative GPA) will be reviewed. Applications can be submitted upon completion of or enrollment in Engineering 1181 and 1182, Math 1151 and 1172, and either Physics 1250, Chemistry 1210 or Chemistry 1250.

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## Technical and Science Electives

**Technical Electives:** Students are required to complete 15 hours of technical electives from the approved Technical Elective List. Students must complete one course from each *Area*, with the remaining coursework coming from any combination of Areas. (Area 1: Infrastructure, Area 2: Transportation & Geodetic Engineering, Area 3: Water Resources & Environmental Engineering)

Area 1 Technical Elective:	_____	Cr. Hrs. _____
Area 2 Technical Elective:	_____	Cr. Hrs. _____
Area 3 Technical Elective:	_____	Cr. Hrs. _____
Technical Elective:	_____	Cr. Hrs. _____
Technical Elective:	_____	Cr. Hrs. _____

**Additional Science Electives:** Civil Engineering students are required to complete a minimum of 8 semester credit hours of science elective credit hours from the approved Science Elective List. At least one course must be taken from Group A. Science Elective course options can be found at <https://ceg.osu.edu/undergraduate-degrees/curriculum-and-bingo-sheets>

Additional Science Elective 1:	_____	Cr. Hrs. _____
Additional Science Elective 2:	_____	Cr. Hrs. _____

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## General Education Requirement

### Launch Seminar

GENED 1201	1hr
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### Foundations

*Complete all of the following:*

<u>Writing and Information Literacy</u>	<u>3 hr</u>
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<u>Historical and Cultural Studies</u>	<u>3 hr</u>
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<u>Social and Behavioral Sciences</u>	<u>3 hr</u>
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<u>Race, Ethnic, and Gender Diversity</u>	<u>3 hr</u>
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<u>Literary, Visual, and Performing Arts</u>	<u>3 hr</u>
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### Thematic Pathways (8-12 hours)

<u>Citizenship for a Just and Diverse World</u>	<u>4-6 hr</u>
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<u>Additional Theme(s)</u>	<u>4-6 hr</u>
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