

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 ___ PHYSICS 1250 (<i>Mechanics, Thermal, Waves</i>) 5 hr ___ ENGR 1100 (<i>Engineering Survey</i>) 1 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 ¹ (<i>Gen Chemistry I</i>) 4 hr ___ ENGR 1221 (<i>Programming</i>) 2 hr ___ General Education 3 hr
2	___ MATH 2177 (<i>Math Topics for Engineers</i>) 4 hr ___ PHYSICS 1251 (<i>E&M, Optics, Modern Phys</i>) 5 hr ___ MECHENG 2010 (<i>Statics</i>) 2 hr ___ CIVILEN 2050 (<i>Prob & Data Interpretation</i>) 3 hr ___ CIVILEN 2090 (<i>Professional Aspects</i>) 1 hr ___ CIVILEN Core Elective 1 3 hr	___ MECHENG 2020 (<i>Mech of Materials</i>) 3 hr ___ CIVILEN 2060 (<i>Numerical Analysis Methods</i>) 4 hr ___ CIVILEN Core Elective 2 3 hr ___ CIVILEN Core Elective 3 3 hr ___ General Education 3 hr
3	___ MECHENG 2030 (<i>Dynamics</i>) 3 hr ___ CIVILEN 3510 (<i>Civil Eng Materials</i>) 3 hr ___ CIVILEN 3310 (<i>Structural Eng. Principles</i>) 3 hr ___ CIVILEN Core Elective 4 3 hr ___ General Education 3 hr	___ CIVILEN 3130 (<i>Fluid Mechanics</i>) 3 hr ___ CIVILEN Core Elective 5 3 hr ___ CIVILEN Core Elective 6 3 hr ___ CIVILEN 3080 ² (<i>Economics & Optimization</i>) 3 hr ___ Additional Science Elective 4 hr
4	___ CIVILEN 4000.01 (<i>Capstone Design 1</i>) 2 hr ___ Technical Elective 3 hr ___ Technical Elective 3 hr ___ Technical Elective 3 hr ___ General Education 3 hr ___ General Education 3 hr	___ CIVILEN 4000.02 (<i>Capstone Design 2</i>) 2 hr ___ Technical Elective 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 = 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.

¹CHEM 1250 is an acceptable substitute for CHEM 1210. Please contact a CEGE advisor if you have questions or concerns.

²CE 3080 is only offered in SP semester

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 on-line course bulletin and master schedule for prerequisite requirements and course availability.

Acceptance Criteria

Admission to the Civil Engineering program requires a formal application, minimum cumulative point-hour ratio (CPHR) of 2.0 at OSU, as well as a minimum eligibility point-hour ratio (EPHR) including transfer credit of 2.5 (effective SU 2015) for consideration. EPHR is calculated from the courses required for admission to the major, excluding Engineering 1100 and English 1110. Students must have completed Engineer 1100, 1181 and 1182, Math 1151 and 1172, two sciences (Physics 1250; and either Physics 1251, Chemistry 1210, or 1250), and English 1110, or their equivalents. Please refer to the department website for major admission details and deadlines. Meeting minimum qualifications does not guarantee admission to major.

Technical and Other electives

Additional Science Elective: Students must select **one** of the following courses to complete the *Additional Science*

Elective requirement:

___ Earth Science 1121.....	4 hr	___ ENR 3000 and 3001.....	4 hr
___ Geography 2960.....	4 hr	___ Biology 1113.....	4 hr

Core Electives: Students are to select 6 of the following courses towards the Civil Core Elective requirement. Students may select *either* CE 4320 **OR** CE 4350, but both courses cannot be used towards the Core Elective requirement.

___ CE 2410 (Intro to Geomatics)	3 hr	___ CE 2810 (Construction Eng. & Management)	3 hr	
___ CE 3540 (Geotechnical Eng.)	3 hr	___ CE 3700 (Transportation Eng. & Analysis)	3 hr	
___ CE 3160 (Water Resources Eng.).....	3 hr	___ ENV 3200 (Fundamentals of Env. Eng.)	3 hr	
___ CE 4320 (Structural Steel Design)	3 hr	OR	___ CE 4350 (Reinforced Concrete Design).....	3 hr

Technical Electives: Students are required to complete 18 hours of technical. 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: _____ Technical Elective: _____
Area 2 Technical Elective: _____ Technical Elective: _____
Area 3 Technical Elective: _____ Technical Elective: _____

- **Courses in BOLD are only offered once per year.** Please refer to the [Civil Engineering Core Course Offerings \(2015-2016\)](#) page for more information.

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: Comparative Studies 2341, Philosophy 1332, Philosophy 1337.

_____ 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.

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.