### 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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>MATH 1151 (Calculus 1) .......................... 5 hr</td>
<td>MATH 1172 (Engineering Math A) ............... 5 hr</td>
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<tr>
<td></td>
<td>ENGR 1181 (Fundamentals of Engr 1) .......... 2 hr</td>
<td>ENGR 1182 (Fundamentals of Engr 2) .......... 2 hr</td>
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<tr>
<td></td>
<td>PHYSICS 1250 (Mechanics, Thermal, Waves) ... 5 hr</td>
<td>PHYSICS 1251 (E&amp;M, Optics, Modern Phys) .... 5 hr</td>
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<td></td>
<td>ENGR 1100 (Engineering Survey) ............... 1 hr</td>
<td>General Education ................................ 3 hr</td>
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<td>General Education ..................................... 3 hr</td>
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<tr>
<td>2</td>
<td>MATH 2177 (Math Topics for Engineers) ........ 4 hr</td>
<td>MECHENG 2020 (Mech of Materials) ............. 3 hr</td>
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<td></td>
<td>CHEM 1210 (General Chemistry I) ............. 5 hr</td>
<td>CIVILEN 2060 (Numerical Analysis Methods) ... 4 hr</td>
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<td>MECHENG 2030 (Statics) ......................... 2 hr</td>
<td>Additional Science Elective .................... 4 hr</td>
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<td>CIVILEN 2050 (Prob &amp; Data Interpretation) ... 3 hr</td>
<td>ENGR 1221 (Programming) ........................ 2 hr</td>
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<td>CIVILEN 2090 (Professional Aspects) .......... 1 hr</td>
<td>General Education ................................ 3 hr</td>
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<tr>
<td>3</td>
<td>MECHENG 2030 (Dynamics) .......................... 3 hr</td>
<td>CIVILEN 3130 (Fluid Mechanics) ............... 3 hr</td>
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<td>CIVILEN 3510 (Civil Eng Materials) .......... 3 hr</td>
<td>CIVILEN Core Elective 4 ......................... 3 hr</td>
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<tr>
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<td>CIVILEN 3310 (Structural Eng. Principles) .... 3 hr</td>
<td>CIVILEN Core Elective 5 ......................... 3 hr</td>
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<td></td>
<td>CIVILEN Core Elective 1 .......................... 3 hr</td>
<td>CIVILEN 3080 (Economics &amp; Optimization) ...... 3 hr</td>
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<td>CIVILEN Core Elective 2 ......................... 3 hr</td>
<td>General Education ................................ 3 hr</td>
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<td></td>
<td>CIVILEN Core Elective 3 .......................... 3 hr</td>
<td>General Education ................................ 3 hr</td>
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<tr>
<td>4</td>
<td>CIVILEN 4000.01 (Capstone Design 1) .......... 2 hr</td>
<td>CIVILEN 4000.02 (Capstone Design 2) .......... 2 hr</td>
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<td>CIVILEN Core Elective 6 .......................... 3 hr</td>
<td>Technical Elective ................................ 3 hr</td>
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<td>Technical Elective .................................. 3 hr</td>
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<td>General Education ..................................... 3 hr</td>
<td>General Education ................................ 3 hr</td>
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</table>

Total Hours to complete the degree program = 131

1CHEM 1250 is an acceptable substitute for CHEM 1210. Please see a CEGE advisor for more details.

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 and is based on a student’s eligibility point-hour ratio (EPHR), cumulative point-hour ratio (CPHR), and additional admission to major courses. Please refer to the department website (www.ceg.osu.edu) for major admission details and deadlines.

EPHR courses: ENGR 1181, 1182; MATH 1151, 1172; PHYSICS 1250; and one additional science (PHYSICS 1251, CHEM 1210, 1250), or course equivalents.

Additional admission to major courses not included in EPHR calculation: ENGR 1100, English 1110.
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
- ___ Geography 2960 .................................................. 4 hr
- ___ ENR 3000 and 3001 ............................................. 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 3540 (Geotechnical Eng.) ................... 3 hr
- ___ CE 3160 (Water Resources Eng.) ......... 3 hr
- ___ CE 4320 (Structural Steel Design) ...... 3 hr  OR  ___ CE 4350 (Reinforced Concrete Design) ...... 3 hr
- ___ CE 2810 (Construction Eng. & Management) .... 3 hr
- ___ CE 3700 (Transportation Eng. & Analysis) .......... 3 hr
- ___ ENV 3200 (Fundamentals of Environmental Eng.) ... 3 hr

**Technical Electives:** Students are required to complete 18 hours of technical electives chosen in consultation with a faculty advisor upon admission to the major. 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: _____________________

**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
- Literature .......................................................... 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.

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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 & Polities 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.

Revised 7/6/2016