### BS in Civil Engineering/Civil Engineering Major Curriculum Flow Chart - Major declared Fall 2020 or later

#### Pre-engineering

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Summer</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6</th>
<th>Term 7</th>
<th>Term 8</th>
</tr>
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<tbody>
<tr>
<td>Total hours = 15</td>
<td>Total hours = 15</td>
<td>Total hours = 12</td>
<td>Total hours = 16</td>
<td>Total hours = 13</td>
<td>Total hours = 16</td>
<td>Total hours = 14</td>
<td>Total hours = 15</td>
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<table>
<thead>
<tr>
<th>Liberal Studies Course (3)</th>
<th>Liberal Studies Course (3)</th>
<th>STA XXXX (3) Statistics Course</th>
<th>PHY2048C (5) Physics II</th>
<th>EGM 3512 (4) Eng. Mechanics</th>
<th>EGN 3331 (3) Geotech Design</th>
<th>CES 3100 (4) Structural Analysis</th>
<th>CGN 4800 (3) Senior Design Project II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-req: CHECK GENERAL BULLETIN</td>
<td>Pre-req: CHECK GENERAL BULLETIN</td>
<td>See approved course list on back page</td>
<td>Pre-req: PHY 2048C, MAC 2312</td>
<td>Pre-req: PHY 2048C, MAC 2312</td>
<td>Pre-req: EGN 3331, MAP 2302</td>
<td>Pre-req: EGN 3512</td>
<td>Pre-req: CGN 4800, Senior Standing</td>
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<tbody>
<tr>
<td>Req. to Declare Major</td>
<td>Req. to Declare Major</td>
<td>Pre-req: MAC 2312</td>
<td>Pre-req: MAC 2312</td>
<td>Pre-req: CEG 2202L &amp; L</td>
<td>Pre-req: EGN 3331</td>
<td>Pre-req: CEG 2202L</td>
<td>Pre-req: CGN 3508L</td>
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<tr>
<td>Pre-req: MAC 1114</td>
<td>Pre-req: MAC 1114</td>
<td>Pre-req: MAC 2311</td>
<td>Pre-req: MAC 2311</td>
<td>Pre-req: CEG 2202L</td>
<td>Pre-req: CEG 3011</td>
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<thead>
<tr>
<th>ENC1101 (3) or ENC 1121 (FAMU only)</th>
<th>ENC 1102 (FAMU) or other approved Second English</th>
<th>MAC 1045/L (4) General Chem I &amp; Lab</th>
<th>PHY2048C (5) Physics I</th>
<th>EGN 1004L (1) First Year Eng. Lab</th>
<th>TTE 3004 (3) Trans. Eng.</th>
<th>CGN3508L (1) CE Materials Lab</th>
<th>XXX XXXX (3) Group B Eng/Math/Sci</th>
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<tbody>
<tr>
<td>Pre-req: CHECK</td>
<td>Pre-req: CHECK</td>
<td>Pre-req: MAC 2311</td>
<td>Pre-req: PHY 2048C</td>
<td>Pre-req: MAC 2311</td>
<td>Pre-req: STATXXX, CEG 2202, CEG 2202L</td>
<td>Pre-req: EGN 3331</td>
<td>Pre-req: CEG 3011</td>
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</thead>
<tbody>
<tr>
<td>Pre-req: CHM 1045/L &amp; MAC 1140 or 1147</td>
<td>Pre-req: MAC 2311</td>
<td>Pre-req: EGM 3512</td>
<td>Pre-req: EGN 3331</td>
<td>Pre-req: CEG 2202L</td>
<td>Pre-req: CHECK</td>
<td>Pre-req: CGN 3508L</td>
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</tbody>
</table>

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<thead>
<tr>
<th>DEGREE MAJOR</th>
<th>GO TO:</th>
<th>DEGREE MAJOR</th>
<th>GO TO:</th>
<th>DEGREE MAJOR</th>
<th>GO TO:</th>
<th>DEGREE MAJOR</th>
<th>GO TO:</th>
</tr>
</thead>
</table>
| DECLARE YOUR MAJOR | Go to: Student Services at COE | DECLARE YOUR MAJOR | Go to: | DECLARE YOUR MAJOR | Go to: | DECL 

*Capstone senior design sequence must be taken sequentially. In addition:*
- CGN 4800 meets FSU's UDW & SIP requirements
- CGN 4802 meets FSU's FE (Formative Experience) requirement
- CGN 4800 & CGN 4802 together meet FSU's OCC (Oral Communications Competency) req.

This flowchart is a suggested academic map; Students may take any course if pre-requisite requirements are met. See [http://eng.famu.fsu.edu/cee/undergraduate/resources](http://eng.famu.fsu.edu/cee/undergraduate/resources) for additional pre-req and advising information.

Updated: 02/2020
BS in Civil Engineering/Environmental Engin. Major Curriculum Flow Chart - Major declared Fall 2020 or later

<table>
<thead>
<tr>
<th>Pre-engineering</th>
<th>Environmental Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>Term 2</td>
</tr>
<tr>
<td>Total hours = 15</td>
<td>Total hours = 15</td>
</tr>
<tr>
<td>ENC1191 (3) or ENC 1121 (FAMU only) Pre-req: CHECK GENERAL BULLETIN</td>
<td>ENC 1102 (FAMU) Eng 2135 (FSU) or other approved Second English Pre-req: ENC 1101</td>
</tr>
<tr>
<td>Pre-eng. Major</td>
<td>Pre-eng. Major</td>
</tr>
<tr>
<td>CHM 1045/1 (4) General Chem I &amp; Lab Pre-req: MAC 1105 Co-req: CHM 1045/L</td>
<td>PHY2046C (5) Physics I Req. to Declare Major Pre-req: MAC 2311</td>
</tr>
<tr>
<td>MAC 2314 (4) Calculus I Req. to Declare Major Pre-req: MAC 1114 &amp; MAC 1140 or 1147</td>
<td>MAC 2312 (4) Calculus II Req. to Declare Major Pre-req: MAC 2311</td>
</tr>
<tr>
<td>EGN 1004L (1) First Year Eng. Lab Req. to Declare Major Pre-req: Must be in Pre-Eng. Major</td>
<td>XXX XXXX (3) Intro to Environmental Engineering Pre-req: CHM 1045/L, MAC 2311, PHY 2048C</td>
</tr>
<tr>
<td>DECLARE YOUR MAJOR Go to: Student Services at COE</td>
<td>EES 3040 (3) Intro to Environmental Engineering Pre-req: CHM 1045/L, MAC 2311, PHY 2048C</td>
</tr>
</tbody>
</table>

*Capstone senior design sequence must be taken sequentially. In addition:
- CGN 4800 meets FSU’s UDW & SIP requirements
- CGN 4802 meets FSU’s FE (Formative Experience) requirement
- CGN 4800 & CGN 4802 together meet FSU’s OCC (Oral Communications Competency) req.

This flowchart is a suggested academic map; Students may take any course if pre-requisite requirements are met. See http://eng.famu.fsu.edu/cee/undergraduate/resources for additional pre-req and advising information.

Updated: 02/2020
GROUP A: Science Elective Courses (select ONE)

- **FAMU:**
  - BSC 1010C General Biology I (4)
  - EVR 3235 Atmospheric Processes (3)
  - GLY 2010 Principles of Geology (3)
  - PCB 2033 General Ecology (3)
  - EVR 3023 Introduction to Marine Environment (3)

- **FSU:**
  - BSC 2010 Biological Science (3)
  - MET 2700 General Meteorology (3)
  - GLY 2010C Physical Geology (4)
  - GLY 1030 Environmental Issues in Geology (3)
  - PCB 3043 General Ecology (3)
  - OCE 4008 Principles of Oceanography (3)

GROUP B: Math/Engineering/Science Elective Courses (select THREE)

**ALL Group B courses MAY be from the CEE Dept. but at least TWO Group B courses MUST be from the CEE Dept.:**

- CEE Department (at least two Group B courses must come from this list):
  - CCE 4xxx Any 4000-level CCE course not meeting another requirement
  - CEG 4xxx Any 4000-level CEG course not meeting another requirement
  - CES 4xxx Any 4000-level CES course not meeting another requirement
  - CWR 4xxx Any 4000-level CWR course not meeting another requirement
  - ENV 4xxx Any 4000-level ENV course not meeting another requirement
  - TTE 4xxx Any 4000-level TTE course not meeting another requirement
  - CGN 4930* Select 4000-level Special Topics (see Academic Coord for info)
  - It is recommended that students interested in M.Eng. w/Structures take both CES 4605 and CES 4702

- **FSU:**
  - GLY 4730 Marine Geology (3)
  - GLY 4884 Environmental Geology I (3)
  - GLY 4820 Principles of Hydrology (3)
  - OCC 4060 Environmental Science Modeling (3)
  - OCE 4631 Aquatic Pollution (3)
  - URP 4936* International Transportation Planning (3)

- **FAMU:**
  - EVR 3028: Environmental Modeling Principles (3)
  - EVR 3867: Environmental Risk Analysis (3)

- **COE:**
  - CGN 3145 Blending STEM and Public Policy (3)
  - EIN 4445 Technology Entrepreneurship and Commercialization (3)

GROUP C: Professional/Technical Elective Courses (select ONE)

A course outside of the CEE department emphasizing professional development, computing, and other professional/technical skills.

- **COE:**
  - CGN 3145 Blending STEM and Public Policy (3)
  - EIN 4445 Technology Entrepreneurship and Commercialization (3)

- **FSU:**
  - CGS 3406 Object-Oriented Programming in C++ (3)
  - COP 3014 Programming I (3)
  - ENC 4212 Editing: Manuscripts, Documents, Reports (3)
  - GIS 2040 Essentials of Geographic Information Systems (3)
  - GIS 4043 & Lab Geographic Info Processing & Systems (3+1)
  - PAD 4380 Disasters: From Shock to Recovery (3)
  - URP 4710 Intro to Transportation Issues and Transportation Planning (3)

- **FAMU:**
  - COP 3014 Fundamentals of Programming (3)
  - ENC 3243 Technical Report Writing (3)
  - GIS 1040 Intro to GIS (3)
  - AGR 4430C Geographic Info Systems (4)

*NOTE: Multiple special topics (4930/4936) courses may share the same course number. Make sure that you are enrolling in the correct section.

GROUP D: Statistics Courses (select ONE)

- **FAMU:**
  - STA 3034 Mathematical Statistics (3)

- **FSU:**
  - STA 2122 Introduction to Applied Statistics (3)
  - STA 3032 Applied Statistics for Engineers and Scientists (3)
  - STA 2023 Fundamental Statistics (3)

*Updated: 02/2020*