

# Civil Engineering Curriculum Flow Chart



Term 1	Term 2	Summer	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
<b>Total hours = 15</b>	<b>Total hours = 15</b>	<b>Total hours = 12</b>	<b>Total hours = 15</b>	<b>Total hours = 16</b>	<b>Total hours = 15</b>	<b>Total hours = 14</b>	<b>Total hours = 14</b>	<b>Total hours = 12</b>
<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>PHY2049C (5) Physics II</b></p> <p>Pre-reqs: PHY 2048C, MAC 2312</p>	<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>EGN 3331 (3) Strength of Materials</b></p> <p>Pre-req: EGM 3512</p>	<p><b>CES 3100 (4) Structural Analysis</b></p> <p>Pre-req: EGM 3512</p> <p>Co/pre-reqs: EGN 3331, MAP 2302</p>	<p><b>CGN 4800 (2) Pre-senior Design &amp; Professional Issues</b></p> <p>Co/pre-req: CEG 2202L Senior Standing</p>	<p><b>CGN 4802 (3) Senior Design Project</b></p> <p>Pre-req: CGN 4800 Senior Standing</p>
<p><b>ENC1101 (3) or ENC 1121 (FAMU only)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>ENC 1102 (FAMU) ENC 2135 (FSU) or other approved Second English</b></p> <p>Pre-req: ENC 1101</p>	<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>STA XXXX (3) Statistics Course See GROUP D</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>EGM 3512 (4) Eng. Mechanics</b></p> <p>Pre-req: PHY 2048C MAC 2312</p> <p>Co/pre-req: MAC 2313</p>	<p><b>EML 3100 (2) Thermo Dynamics</b></p> <p>Pre-reqs: MAC2312, CHM 1045, PHY 2048</p>	<p><b>CEG 3011 (3) Soil Mechanics</b></p> <p>Co/pre-req: EGN 3331</p>	<p><b>CEG 4801(3) Geotech Des OR CEG 4111(3) Foundation Eng.</b></p> <p>Pre-req: CEG 3011</p> <p>Co/pre-req: CGN3508L</p>	<p><b>TTE 4XXX(3) Trans. Elec OR CCE 4XXX(3) Construction Elec</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p><b>CHM 1045/L (4) General Chem I &amp; Lab</b></p> <p>Pre-req: MAC 1105</p> <p>Co-req: CHM 1045L</p>	<p><b>PHY2048C (5) Physics I</b></p> <p><i>Req. to Declare Major</i></p> <p>Pre-req: MAC 2311</p>	<p><b>General Education Course (3)</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>EGN 2123 (2) Engineering Graphics</b></p> <p>Co or Pre-req: MAC 2311</p>	<p><b>CEG 2202 (3+1) Intro to Geomat &amp; Lab</b></p> <p>Pre-Req: MAC 2311</p> <p>Co/pre-req: EGN 2123</p> <p>Course &amp; lab must be taken same semester</p>	<p><b>EEL 3003 (3) Intro to Electrical Eng LAB NOT REQUIRED</b></p> <p>Pre-req: MAC 2312, PHY 2049C</p>	<p><b>TTE 3004 (3) Trans. Eng.</b></p> <p>Pre-req: STAXXXX, CEG 2202, CEG 2202L</p>	<p><b>CES 4702(3) Conc Des OR CES 4605(3) Steel Design</b></p> <p>Pre-req: EGN 3331</p> <p>CEG 3100</p> <p>Co/Pre-req: CGN 3508L</p>	<p><b>XXX XXXX (3) Group B Eng/Math/Sci Elec See GROUP B</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p><b>MAC 2311 (4) Calculus I</b></p> <p><i>Req. to Declare Major</i></p> <p>Pre-req: MAC 1114 &amp; MAC 1140 or 1147</p>	<p><b>MAC 2312 (4) Calculus II</b></p> <p><i>Req. to Declare Major</i></p> <p>Pre-req: MAC 2311</p>	<p><b>XXX XXXX (3) Science Elective See GROUP A</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>MAC 2313 (5) Calculus III</b></p> <p>Pre-req: MAC 2312</p>	<p><b>MAP 3305 (3) Eng. Math OR MAP 2302 (3) ODE</b></p> <p>Pre-req: MAC 2313 or "B" in MAC 2312</p>	<p><b>CWR 3201 (3) Hydraulics</b></p> <p>Pre-req: EGM 3512</p>	<p><b>CCE 3101 (3) Const. Materials</b></p> <p>Pre-req: EGN 3331</p>	<p><b>ENV 4001(3) Env Eng OR CWRXXXX Wat Res Elec</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>XXX XXXX (3) Group C Prof/Tech Elec See GROUP C</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p><b>EGN 1004L (1) First Year Eng. Lab</b></p> <p><i>Req. to Declare Major</i></p> <p>Pre-req: Must be in Pre-Eng. Major</p>		<p><b>DECLARE YOUR MAJOR</b></p> <p><i>Go to: Student Services at COE</i></p>		<p><b>EGN3613 (2) Eng. Economy</b></p> <p>Pre-req: MAC 2313</p>	<p><b>EES 3040 (3) Intro.to Environmental Engineering</b></p> <p>Pre-reqs: CHM 1045&amp;L, MAC 2311, PHY 2048C</p>	<p><b>CGN3508L (1) CE Materials Lab</b></p> <p>Pre-req: EGN3331</p> <p>Co/pre-req: CCE 3101 or CEG 3011</p>	<p><b>XXX XXXX (3) Group B Eng/Math/Sci Elec See GROUP B</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	
<p><b>General Education</b> courses include Humanities, Ethics, Social Science, History, Logical Thinking  <b>For FSU go to</b> <a href="http://registrar.fsu.edu/bulletin/undergraduate/information/undergraduate_degree/">http://registrar.fsu.edu/bulletin/undergraduate/information/undergraduate_degree/</a>  <b>For FAMU go to</b> <a href="http://catalog.famu.edu/content.php?catoid=5&amp;navoid=218">http://catalog.famu.edu/content.php?catoid=5&amp;navoid=218</a></p>					<p><b>CWR 3200L (1) Env/Hyd Eng Lab</b></p> <p>Co/pre-req: CWR 3201 or EES 3040</p>		<p><b>COMPLETE DEPARTMENT &amp; UNIVERSITY GRAD CHECKS</b></p>	<p><b>APPLY FOR GRADUATION ON LINE 1<sup>ST</sup> WEEK OF SEMESTER</b></p>
<p><b>GENERAL EDUCATION COURSES</b></p>		<p><b>MAJOR MILESTONES</b></p>						
<p><b>REQUIRED ELECTIVES:</b> Group A, B, C, D courses are listed on the back of this page</p>								
					<p><b>OPTIONAL: CHECK FOR INTERSHIP OPPORTUNITIES AT CAREER SERVICES/COE</b></p>			<p><b>SIGN UP FOR FE EXAM</b></p> <p><i>Go to: FBPE.ORG</i></p>

THIS IS A SUGGESTED ACADEMIC MAP; STUDENTS MAKE TAKE ANY COURSE IF PRE-REQ REQUIREMENTS ARE MET

# Environmental Engineering Curriculum Flow Chart

← Pre-engineering →

Environmental Major →

Term 1	Term 2	Summer	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
<b>Total hours = 15</b>	<b>Total hours = 15</b>	<b>Total hours = 12</b>	<b>Total hours = 15</b>	<b>Total hours = 16</b>	<b>Total hours = 15</b>	<b>Total hours = 13</b>	<b>Total hours = 15</b>	<b>Total hours = 12</b>
<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>PHY2049C (5) Physics II</p> <p>Pre-reqs: PHY 2048C, MAC 2312</p>	<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>EGN 3331 (3) Strength of Materials</p> <p>Pre-req: EGM 3512</p>	<p>CHM 1046/L Chem II(4) <b>OR</b> MCB 2004/L(4) FSU <b>OR</b> MCB 3005C(4) FAMU</p>	<p>CGN 4800 (2) Pre-senior Design &amp; Professional Issues</p> <p>Co/pre-req: CEG 2202L Senior Standing</p>	<p>CGN 4802 (3) Senior Design Project</p> <p>Pre-req: CGN 4800 Senior Standing</p>
<p>ENC1101 (3) or ENC 1121 (FAMU only)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>ENC 1102 (FAMU) ENC 2135 (FSU) or other approved Second English</p> <p>Pre-req: ENC 1101</p>	<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>STA XXXX (3) Statistics Course <b>See GROUP D</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>EGM 3512 (4) Eng. Mechanics</p> <p>Pre-req: PHY 2048C MAC 2312 Co/pre-req. MAC 2313</p>	<p>EML 3100 (2) Thermo Dynamics</p> <p>Pre-reqs: MAC2312, CHM 1045, PHY 2048</p>	<p>CEG 3011 (3) Soil Mechanics</p> <p>Co/pre-req: EGN 3331</p>	<p>CEG 4801(3) Geotech Des <b>OR</b> CEG 4111(3) Foundation Engr.</p> <p>Pre-req: CEG 3011 Co/pre-req: CGN3508L</p>	<p>TTE 4XXX(3) Trans. Elec <b>OR</b> CCE 4XXX(3) Construction Elec</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p>CHM 1045/L (4) General Chem I &amp; Lab</p> <p>Pre-req: MAC 1105 Co-req: CHM 1045L</p>	<p>PHY2048C (5) Physics I <i>Req. to Declare Major</i></p> <p>Pre-req: MAC 2311</p>	<p>General Education Course (3)</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>EGN 2123 (2) Engineering Graphics</p> <p>Co or Pre-req: MAC 2311</p>	<p>CEG 2202 (3+1) Intro to Geomat &amp; Lab Pre-Req: MAC 2311 Co/pre-req: EGN 2123 Course &amp; lab must be taken same semester</p>	<p>EEL 3003 (3) Intro to Electrical Eng <b>LAB NOT REQUIRED</b></p> <p>Pre-req: MAC 2312, PHY 2049C</p>	<p>TTE 3004 (3) Trans. Eng.</p> <p>Pre-req: STAXXXX, CEG 2202, CEG 2202L</p>	<p>ENV 4001 (3) Environ Eng.</p> <p>Pre-req: CWR 3201, EES 3040, CWR 3200L</p>	<p>XXX XXXX (3) Group B Eng/Math/Sci Elec <b>See GROUP B</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p>MAC 2311 (4) Calculus I <i>Req. to Declare Major</i></p> <p>Pre-req: MAC 1114 &amp; MAC 1140 or 1147</p>	<p>MAC 2312 (4) Calculus II <i>Req. to Declare Major</i></p> <p>Pre-req: MAC 2311</p>	<p>XXX XXXX (3) Science Elective <b>See GROUP A</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>MAC 2313 (5) Calculus III</p> <p>Pre-req: MAC 2312</p>	<p>MAP 3305 (3) Eng. Math <b>OR</b> MAP 2302 (3) ODE</p> <p>Pre-req: MAC 2313 or "B" in MAC 2312</p>	<p>CWR 3201 (3) Hydraulics</p> <p>Pre-req: EGM 3512</p>	<p>CCE 3101 (3) Const. Materials</p> <p>Pre-req: EGN 3331</p>	<p>CWR 4XXX (3) Water Resource Elec</p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p>XXX XXXX (3) Group C Prof/Tech Elec <b>See GROUP C</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>
<p>EGN 1004L (1) First Year Eng. Lab <i>Req. to Declare Major</i></p> <p>Pre-req: Must be in Pre-Eng. Major</p>		<p><b>DECLARE YOUR MAJOR</b> <i>Go to: Student Services at COE</i></p>		<p>EGN3613 (2) Eng. Economy</p> <p>Pre-req: MAC 2313</p>	<p>EES 3040 (3) Intro.to Environmental Engineering</p> <p>Pre-reqs: CHM 1045&amp;L, MAC 2311, PHY 2048C</p>	<p>CGN3508L (1) CE Materials Lab</p> <p>Pre-req: EGN3331 Co/pre-req: CCE 3101 or CEG 3011</p>	<p>XXX XXXX (3) Group B Eng/Math/Sci Elec <b>See GROUP B</b></p> <p>Pre-req: CHECK GENERAL BULLETIN</p>	<p><b>APPLY FOR GRADUATION ON LINE 1<sup>ST</sup> WEEK OF SEMESTER</b></p>
<p><b>General Education</b> courses include Humanities, Ethics, Social Science, History, Logical Thinking <b>For FSU go to</b> <a href="http://registrar.fsu.edu/bulletin/undergraduate/information/undergraduate_degree/">http://registrar.fsu.edu/bulletin/undergraduate/information/undergraduate_degree/</a> <b>For FAMU go to</b> <a href="http://catalog.famu.edu/content.php?catoid=5&amp;navoid=218">http://catalog.famu.edu/content.php?catoid=5&amp;navoid=218</a></p>					<p>CWR 3200L (1) Env/Hyd Eng Lab</p> <p>Co/pre-req: CWR 3201 or EES 3040</p>		<p><b>SIGN UP FOR FE EXAM</b> <i>Go to: FBPE.ORG</i></p>	
<p>GENERAL EDUCATION COURSES</p>		<p>MAJOR MILESTONES</p>			<p><b>OPTIONAL: CHECK FOR INTERSHIP OPPORTUNITIES AT CAREER SERVICES/COE</b></p>		<p><b>COMPLETE DEPARTMENT &amp; UNIVERSITY GRAD CHECKS</b></p>	
<p>REQUIRED ELECTIVES: Group A, B, C, D courses are listed on the back of this page</p>								

**THIS IS A SUGGESTED ACADEMIC MAP; STUDENTS MAKE TAKE ANY COURSE IF PRE-REQ REQUIREMENTS ARE MET**

## 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 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 4930\* Blending STEM and Public Policy (3)**
  - EIN 4445/4150 (FSU/FAMU) Technology Entrepreneurship and Commercialization (3)
- **FSU:**
  - BUL 3310 Legal & Ethical Environment of Business (3)
  - GIS 2040 Essentials of Geographic Information Systems (3)
  - CGS 3406 Object-Oriented Programming in C++ (3)
  - ENC 4212 Editing: Manuscripts, Documents, Reports (3)
  - GIS 4043 & Lab Geographic Info Processing & Systems (3+1)
  - URP 4710 Intro to Transportation Issues and Transportation Planning (3)
  - **PAD 4936\* Disasters: From Shock to Recovery or Disaster Mgt.**
- **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 B: Math/Engineering/Science Elective Courses (select TWO)

**BOTH** Group B courses **MAY** be from the CEE Dept. but at least **ONE** Group B course **MUST** be from the CEE Dept.:

- **CEE Department:**
  - 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 Coordinator for more info)**
- **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:**
  - ESI 3312C Operations Research I: Deterministic (3)
  - **EML 4930\* Experimental Methods in Nanoscale Science & Engineering (3)**

\* **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)