Bachelor of Science in Environmental Engineering

Requirements listed are for the catalog effective Fall 2018

Legend:
- Pre-Requisite
- Pre- or Co-
- Fall Only
- Spring Only
- Fall/Spring
- Summer Only
- Sci & Math
- Core Courses
- Engineering Fund. Courses
- IFP Requirements

Environmental Engineering Technical Electives:

- ANT 4463  Environment and Disease
- CCE 4031  Construction Project Mgmt. (Prereq: Senior & Permission of Dept.)
- CEG 3011C  Soil Mechanics (Prereq: EGN3331)
- CWR 4223  Advanced Hydraulic Systems (Prereq: CWR3201C)
- CWR 4307  Stormwater Modeling & Mgmt. (Prereq: CWR3201C)
- ECP 4202  Environmental Economics
- EGN 4613  Engineering Economics (Prereq: EGN3331)
- ENT 4024  Entrepreneurship (Prereq: Junior standing)
- GRY 4241  Environmental Geochemistry (Prereq: CHEM2045)
- GLY 4822  Hydrogeology (Prereq: GLY2010C, MAC2311, CHEM2045)
- INR 4350  Global Environmental Politics and Policies
- OCE 3008  Oceanography (Prereq: CHEM2045)
- PHI 3640  Environmental Ethics
- SUR 3103/L Geomatics (Prereq: MAC1114)
- URP 4403  Sustainable Cities
- URP 4420  Environmental Planning Methods
Any CEGE graduate course offering

Biological Science Elective Options (4 credits):

- BSC 1010/L Biological Principles & Lab
- BSC 1011/L Biodiversity & Lab

Earth Science Elective Options (3 credits):

- EGR 1111C General Physics I
- EGR 2112C General Physics II Lab
- EGR 3112C General Physics II
- EGR 3410C General Physics II Lab

An additional combo (that switches the credit count around) is BSC1005/BSC1005 (3 credits) for the Bio Elect and GLY2010C (4 credits) for the Earth Science.

Requirements to Declare Environmental Engineering

Must obtain a minimum grade of "C" and a GPA of 2.0 or greater in MAC2311 & PHY2048

Grade of C or Better Required in all Coursework

4 year & Transfer Students:
At least 120 credits
At least 45 credits in the Upper-Division

Transfer Students:
At least 32 credits from FAU

This flowchart is reviewed periodically and is subject to change as new requirements become necessary to educate engineers. The information is intended to inform and is not a replacement for a degree audit conducted with an academic advisor.

Rev 8/18
# PRE-PROFESSIONAL ENGINEERING PROGRAM (2018-2019)

**College of Engineering and Computer Science**

## FOUNDATIONS OF WRITTEN COMMUNICATION
(6 credit hours required – Writing Across the Curriculum - WAC)

Grade of “C” or higher is required in each course

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENC 1101-------------College Writing I (Required)</td>
</tr>
<tr>
<td>ENC 1102-------------College Writing II +</td>
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</tbody>
</table>

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**THE FOLLOWING COURSES BELOW MAY BE SUBSTITUTED FOR ENC 1102:**

### English Department

- ENC 1930+ University Honors Seminar in Writing (Permit Only)
- ENC 1939+ Special Topic: College Writing
- ENC 2452+ Honors Composition for Science

### Anthropology Department

- ANT 1471+ Cultural Difference in a Globalized Society

### History Department

- HIS 2050+ Writing History
  **Note**: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

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## FOUNDATIONS OF SCIENCE & THE NATURAL WORLD
(6 credit hours required - One of the courses must have a lab) Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biology Department</strong></td>
<td></td>
</tr>
<tr>
<td>BSC 1010 &amp; L &amp; D Biological Principles (4 cr. incl. Lab &amp; Dis)</td>
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</tr>
<tr>
<td><strong>Chemistry Department</strong></td>
<td></td>
</tr>
<tr>
<td>CHM 2045 &amp; L (Required) General Chemistry 1 (4 cr. incl. Lab)</td>
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</tr>
<tr>
<td><strong>Physics Department</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 248A &amp; L (Required) General Physics 1 (4 or 5 credits incl. Lab)</td>
<td></td>
</tr>
<tr>
<td><strong>Geosciences Department</strong></td>
<td></td>
</tr>
<tr>
<td>GYL 2010C Physical Geol. (4 cr. incl. Lab)</td>
<td></td>
</tr>
<tr>
<td><strong>Physics Department</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 249A &amp; L (Required) General Physics 1 (4 or 5 credits incl. Lab)</td>
<td></td>
</tr>
</tbody>
</table>

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## FOUNDATIONS OF HUMANITIES
(6 credit hours required)

Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

### Group A

**Visual Art & Art History Department**

- ARH 2000-------------Art Appreciation (P/F)

**Music Department**

- MUL 2010-------------Music Appreciation

**Philosophy Department**

- PHI 2010 & D Introduction to Philosophy (WAC)

**Theatre & Dance Department**

- THE 2000-------------Theatre Appreciation

**Group B**

**Architecture Department**

- ARC 2208-------------Culture & Architecture

**Theatre & Dance Department**

- DAN 2100-------------Appreciation of Dance

**School of Communication & Multimedia Studies**

- FIL 2000 & D Film Appreciation

**Languages, Linguistics, & Comparative Literature Department**

- LIT 2100-------------Introduction to World Literature

**English Department**

- LIT 2100-------------Interpretation of Fiction (WAC)
- LIT 2030-------------Interpretation of Poetry (WAC)
- LIT 2040-------------Interpretation of Drama (WAC)
- LIT 2070-------------Interpretation of Creative Nonfiction (WAC)

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## FOUNDATIONS OF MATHMATICS & QUANTITATIVE REASONING
(6 credit hours required - Grade of “C” or higher is required) Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

### Group A

- MAC 2311-------------Calculus with Analytic Geometry 1 (4 credits) (Required)

### Group B

- MAC 2312-------------Calculus with Analytic Geometry 2 (4 credits) (Required)

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## FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR
(6 credit hours required)

Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

### Group A

**History Department**

- AMH 2020 & D United States History Since 1877 (P/F)

**Anthropology Department**

- ANT 2000 & D Introduction to Anthropology

**Economics Department**

- ECO 2013 Macroeconomic Principles

**Political Science Department**

- POS 2041 Government of the United States

**Psychology Department**

- PSY 1012 Introduction to Psychology

**Sociology Department**

- SYG 1000 Sociological Perspectives

### Group B

**History Department**

- AMH 2010 & D United States History to 1877 (P/F)

**Economics Department**

- ECO 2023 Microeconomic Principles
- ECP 2002 Contemporary Economic Issues

**Exceptional Student Education Department**

- EEX 2091 Disability and Society

**Geosciences Department**

- EVR 2017 Environment and Society

**Languages, Linguistics, & Comparative Literature Department**

- LIN 2001 Introduction to Language (online course)

**Public Administration Department**

- PAD 2258 Changing Environment of Soc., Bus., & Gov’t

**Sociology Department**

- SYD 2790 Race, Class, Gender, and Sexuality
- SYG 2010 Social Problems

**Urban & Regional Planning Department**

- URP 2051 Designing the City

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## FOUNDATIONS IN GLOBAL CITIZENSHIP
(6 credit hours required)

Student must choose two courses from among the following:

### Anthropology Department

- ANT 2410 Culture and Society

### Curriculum, Culture & Education Department

- EDF 2854 Educated Citizen in Global Context

### Geosciences Department

- GEA 2000 World Geography

### Political Science Department

- INR 2002 Introduction to World Politics

**Languages, Linguistics, & Comparative Literature Department**

- LAS 2000 Intro to Caribbean & Latin American Studies
- LIN 2607 Global Perspectives on Language (online course)

**Sociology Department**

- SYP 2450 Global Society

**Social Work Department**

- SOW 1005 Global Perspectives of Social Services

**History Department**

- WOH 2012 & D History of Civilization 1 (WAC)
- WOH 2022 History of Civilization 2