**PRE-PROFESSIONAL ENGINEERING PROGRAM (2019-2020)**

**College of Engineering and Computer Science**

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### FOUNDATIONS OF WRITTEN COMMUNICATION
(6 credit hours required – Writing Across the Curriculum - WAC)
Grade of “C” or higher is required in each course

- ENC 1101......College Writing I (Required)
- ENC 1102......College Writing II +

**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.

**Group A**

- Biology Department
  - BSC 1010 & L & D Biological Principles (4 cr. Incl. Lab & Dis)

- Chemistry Department
  - CHM 2045 & L (Required) ****
    - General Chemistry 1 (4 cr. Incl. Lab) *

- Physics Department
  - PHY 2048 & L (Required) ****
    - General Physics 1 (4 or 5 credits incl. Lab) **
  - PHY 2049 & L ****
    - General Physics 2
    - (4 or 5 credits incl. Lab) **

**Group B**

- Geosciences Department
  - GLY 2010C
    - Physical Geol. (4 cr. incl. Lab)

- Physics Department
  - PHY 2049 & L ****
    - Physical Geol. (4 cr. incl. Lab)

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**Group A**

- Biology Department
  - BSC 1010 & L & D Biological Principles (4 cr. Incl. Lab & Dis)

- Chemistry Department
  - CHM 2045 & L (Required) ****
    - General Chemistry 1 (4 cr. Incl. Lab) *

- Physics Department
  - PHY 2048 & L (Required) ****
    - General Physics 1 (4 or 5 credits incl. Lab) **
  - PHY 2049 & L ****
    - General Physics 2
    - (4 or 5 credits incl. Lab) **

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**Group B**

- Geosciences Department
  - GLY 2010C
    - Physical Geol. (4 cr. incl. Lab)

- Physics Department
  - PHY 2049 & L ****
    - Physical Geol. (4 cr. incl. Lab)

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**SEE SCIENCE REQUIREMENTS BY MAJOR ON PAGE 3**

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(D) = Discussion, (L) = Lab
Courses indicating a (D) or (L) are linked with a lecture, a lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.
**STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS**

Course selections should be made in consultation with an academic advisor.

### Foundations in Global Citizenship

<table>
<thead>
<tr>
<th>Department</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>Anthropology Department</td>
<td>ANT 2410</td>
<td>Culture and Society</td>
</tr>
<tr>
<td>Curriculum, Culture &amp; Education Department</td>
<td>EDF 2854</td>
<td>Educated Citizen in Global Context</td>
</tr>
<tr>
<td>Geosciences Department</td>
<td>GEA 2000</td>
<td>World Geography</td>
</tr>
<tr>
<td>Political Science Department</td>
<td>INR 2002</td>
<td>Introduction to World Politics</td>
</tr>
<tr>
<td>Languages, Linguistics, &amp; Comparative Literature Department</td>
<td>LAS 2000</td>
<td>Intro to Caribbean &amp; Latin American Studies</td>
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<tr>
<td></td>
<td>LIN 2607</td>
<td>Global Perspectives on Language (online course)</td>
</tr>
<tr>
<td>Sociology Department</td>
<td>SYP 2450</td>
<td>Global Society</td>
</tr>
<tr>
<td>Social Work Department</td>
<td>SOW 1005</td>
<td>Global Perspectives of Social Services</td>
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<tr>
<td>History Department</td>
<td>WOH 2012</td>
<td>History of Civilization 1 (WAC) ++</td>
</tr>
<tr>
<td></td>
<td>WOH 2022</td>
<td>History of Civilization 2</td>
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### Foundations of Humanities

<table>
<thead>
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<th>Department</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>Visual Art &amp; Art History Department</td>
<td>ARH 2000</td>
<td>Art Appreciation (P/F)</td>
</tr>
<tr>
<td>Music Department</td>
<td>MUL 2010</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>Philosophy Department</td>
<td>PHI 2010</td>
<td>Introduction to Philosophy (WAC) ++</td>
</tr>
<tr>
<td>Theatre &amp; Dance Department</td>
<td>THE 2000</td>
<td>Theatre Appreciation</td>
</tr>
<tr>
<td>Architecture Department</td>
<td>ARC 2208</td>
<td>Culture &amp; Architecture</td>
</tr>
<tr>
<td>Theatre &amp; Dance Department</td>
<td>DAN 2100</td>
<td>Appreciation of Dance</td>
</tr>
<tr>
<td>School of Communication &amp; Multimedia Studies</td>
<td>FIL 2000</td>
<td>Film Appreciation</td>
</tr>
<tr>
<td>Languages, Linguistics, &amp; Comparative Literature Department</td>
<td>LIT 2100</td>
<td>Introduction to World Literature</td>
</tr>
<tr>
<td>English Department</td>
<td>LIT 2010</td>
<td>Interpretation of Fiction (WAC) ++</td>
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<td></td>
<td>LIT 2030</td>
<td>Interpretation of Poetry (WAC) ++</td>
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<td>LIT 2040</td>
<td>Interpretation of Drama (WAC) ++</td>
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<td></td>
<td>LIT 2070</td>
<td>Interpretation of Creative Nonfiction (WAC) ++</td>
</tr>
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</table>

### Legend

- + ENC 1101 is a prerequisite.
- ++ Two Foundations of Written Communications classes are required before taking this course.
- § Sophomore standing (30 credits earned) is a requirement to take this course.
- * Nursing majors are required to take this course in their first semester.
- ** MAC 2311 is a prerequisite for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- *** MAC 1105 and MAC 1114 are prerequisites for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- ‡ Co-requisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025).
- WAC Writing across the curriculum (WAC)/Gordon Rule

### Writing Across the Curriculum (WAC)/Gordon Rule

Students must attain grades of “C” or higher. 12 credits of writing (WAC) and 6 credits of mathematics are required.

**Please note:**

Students must take four (4) WAC courses. Two (2) courses are to be taken from Foundations of Written Communication. We strongly recommend the two additional WAC courses come from these courses: PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040 and LIT 2070. See advisor for additional details.

### Elective Credits

The number of elective credits allowed varies by major. Please consult with an academic advisor to determine the number of elective credits required for your major. **Certain majors do not allow any electives.**

### P/F

Certain designated undergraduate courses may be taken for a letter grade of pass (P) or fail (F). Students must indicate the grade option preferred when registering; otherwise, a letter grade will be given. The maximum credit available to any student on the P/F option is one course per term with a maximum of 12 credits during a student’s entire course of study. This option is not available for courses in the student’s major, for students on probation, or for Engineering majors.

**Go to MyFAU to:**

- Check e-mail
- See FAU Announcements

**FAU Self-Service:**

- Course schedules
- Registration (drop/add classes) and withdrawals
- Student records and financial aid
- Tuition payments
- The University Course Catalog

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**https://myfau.fau.edu**

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MAJOR REQUIREMENTS
(All required major courses must earn a “C” or better)
Engineering students must stick to the core curriculum.

EGN 1002 & L
Fundamentals of Engineering [Must be taken freshman year] (NOT required for Computer Science majors)

**** SCIENCE REQUIREMENTS BY MAJOR
(All science courses must earn a “C” or better)

Computer, Electrical, Mechanical, and Ocean Engineering:
___ CHM 2045 & L & D General Chemistry 1 (4 cr. w/Lab) ‡ (REQUIRED)
___ PHY 2048 & L........ General Physics 1 (4 or 5 cr. w/ Lab) ** (REQUIRED)
___ PHY 2049 & L......... General Physics 2 (4 or 5 cr. w/ Lab) (REQUIRED) or PHY 2044 & L...PHYSICS FOR ENGINEERS 2 (4 cr. w/ Lab)

Civil and Environmental Engineering:
___ CHM 2045 & L....... General Chemistry 1 (4 cr. w/Lab) ‡ (REQUIRED)
___ PHY 2048 & L....... General Physics 1 (4 or 5 cr. w/ Lab) ** (REQUIRED)

Civil Engineering must also choose 1 from Science 1:
___ BSC 1010 & L & D...Biological Principles (4 credits including Lab & Discussion)
___ GLY 2010C & D.......Physical Geology (4 cr. including Lab) (RECOMMENDED)
And must also choose 1 from Science 2:
___ BSC 1010 & L & D...Biological Principles (4 credits including Lab & Discussion) *
___ GLY 2010C & D.......Physical Geology (4 cr. including Lab) *
___ PHY 2049 & L......... General Physics 2 (4 or 5 cr. w/ Lab) or PHY 2044 & L...PHYSICS FOR ENGINEERS 2 (4 cr. w/ Lab)
___ CHM 2046 & L....... General Chemistry 6 (4 cr. w/Lab) ‡
*May not be used to satisfy Science 2 if used to satisfy Science 1

Environmental Engineering majors must also take:
___ CHM 2046 & Lab...General Chemistry 2 (4 cr. w/Lab) ‡ (REQUIRED)
And must also choose 1 from:
___ BSC 1010 & L & D...Biological Principles (4 credits including Lab & Discussion)
___ BSC 1011 & L & D...Biodiversity (4 credits including Lab & Discussion)
And must also choose 1 from:
___ GEO 2200C............Intro to Physical Geography
___ GLY 2010C & D..... Physical Geology (4 cr. including Lab)

Geomatics Engineering majors must take:
___ PHY 2048 & L........ General Physics 1 (4 or 5 cr. w/ Lab) ** (REQUIRED)
___ GEO 2200C.......... Intro to Physical Geography
And must also choose 1 from Science 1:
___ CHM 2045 & L....... General Chemistry 1 (4 cr. w/Lab) ‡
___ GLY 2010C......... Physical Geology (4 cr. including Lab)
And must also choose 2 from Science 2:
___ ANT 2511 & L......Intro to Biological Anthropology (4 credits w/Lab)
___ BSC 1010 & L & D...Biological Principles (4 credits w/Lab & Discussion)
___ BSC 1011 & L & D...Biodiversity (4 credits w/Lab & Discussion)
___ BSC 2085 & L.......Anatomy & Physiology 1 (4 credits including Lab & Discussion)
___ CHM 2045 & L....... General Chemistry 1 (4 cr. w/Lab) ‡ *
___ CHM 2032 & L.......Chemistry for Health Sciences (4 cr. w/Lab)
___ GLY 2010C & D.......Physical Geology (4 cr. including Lab) *
___ PHY 2053 & L.......College Physics 1 (4 credits w/ Lab)
*May not be used to satisfy Science 2 if used to satisfy Science 1

Computer Science:
___ PHY 2048 & L........ General Physics 1 (4 or 5 cr. w/ Lab) ** (REQUIRED)
___ PHY 2049 & L........ General Physics 2 (4 or 5 cr. w/ Lab) (REQUIRED) or PHY 2044 & L...... PHYSICS FOR ENGINEERS 2 (4 cr. w/ Lab)

Computer Science majors must also choose 1 from:
___ CHM 2045 & L....... General Chemistry 1 (4 cr. w/Lab) ‡
___ BSC 1010 & L & D...Biological Principles (4 credits including Lab & Discussion)
___ GLY 2010C..............Physical Geology (4 cr. including Lab)
REQUIREMENT INFORMATION

NOTE: All Engineering and Computer Science students should take Physics I (PHY 2048 & PHY 2048L) with Calculus II (MAC 2312) in the same semester.

NOTE: Students must receive a minimum grade of “C” in the courses below in no more than two attempts:

- Electrical and Computer Engineering: MAC 2311 & MAC 2312 or PHY 2048
- Ocean, Mechanical, Civil, Environmental: MAC 2311 & PHY 2048
- Computer Science: COP 2220 & MAC 1140 & MAC 1114 or COP 2220 & MAC 1147 or COP 2220 & MAC 2210
- Geomatics: MAC 2311

Incoming Freshman and students transferring with less than 30 credits contact:
University Advising Services
Phone: (561) 297-3064
Email address: advisingservices@fau.edu

Transfer students or students with more than 30 credits contact:
College of Engineering & Computer Science
Phone: (561) 297-2780
Email address: engineering-advising@fau.edu