### Pre-professional Engineering Program (2015-2016)

**Foundations of Written Communication**
*(6 credit hours required – Writing Across the Curriculum - WAC)*
- **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: The American Revolution

**Nursing Department** *(Department Permission Required)*
- **NSP 1195+** …… Being Cared For: Reflections from Other Side of Bed

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

---

**Foundations of Science & the Natural World**
*(6 credit hours required - One of the courses must have a lab)*
Student must take two of the following courses, one must be from group A. The second course may be from group A or group B.

**Grade of “C” or higher is required**

***See Science Requirements by Major on Page 3***

**Group A**

- **Biology Department**
  - **BSC 1005 & L** …… Life Science (3 credits including Lab)
  - **BSC 1010 & L & D** …… Biological Principles (4 credits including Lab & Dis)
  - **BSC 2085 & L** …… Anatomy & Physiology 1 (4 credits including Lab) *

- **Chemistry Department**
  - **CHM 1020C** …… Contemporary Chemical Issues
  - **CHM 2045 & L** …… General Chemistry 1 (4 cr. w/ Lab) ‡ *(REQUIRED)*

- **Geosciences Department**
  - **ESC 2000** …… Blue Planet *(online course)*

- **Physics Department**
  - **AST 2002** …… Introduction to Astronomy *(P/F)*
  - **PHY 2048 & L** …… General Physics 1 (5 cr. w/ Lab) ** *(REQUIRED)***
  - **PHY 2053** …… College Physics 1 (4 credits) ***(REQUIRED)***

**Group B**

- **Anthropology Department**
  - **ANT 2511 & L** …… Intro to Biological Anthropology (4 cr. Incl. Lab)

- **Biology Department**
  - **BSC 1011 & L & D** …… Biodiversity (4 cr. including Lab & Discussion)

- **Chemistry Department**
  - **CHM 2032 & L** …… Chemistry for Health Sciences (4 cr. including Lab)
  - **CHM 2083** …… Chemistry in Modern Life *(P/F)*

- **Engineering Dean Department**
  - **ETG 2831** …… Nature: Inter. of Sci., Eng., & the Humanities

- **Geosciences Department**
  - **GLY 2010C** …… Physical Geology (4 cr. including Lab)
  - **GLY 2100** …… History of Earth and Life
  - **MET 2010 & D** …… Weather and Climate

- **Physics Department**
  - **PHY 2049 & L** …… General Physics 2 (5 cr. w/ Lab) *(REQUIRED)*
  - **PSC 2121** …… Physical Science

---

**Foundations of Mathematics & Quantitative Reasoning**
*(6 credit hours required – Grade of “C” or higher is required)*
Student must take two of the following courses, one must be from group A. The second course may be from group A or group B.

**Pretest is required before taking your first math course**

**Group A**
- **MF 1106** …… Math for Liberal Arts 1
- **MF 1107** …… Math for Liberal Arts 2
- **MAC 1105** …… College Algebra
- **STA 2023** …… Introductory Statistics

**Group B**
- **MAC 2311** …… Calc. w/ Analytic Geometry 1 (4 credits) *(REQUIRED)*
or any mathematics course for which one of the above courses is the direct prerequisite

**Philosophy Department**
- **PHI 2102** …… Logic

*Note: Students must take at least one course with the prefix MAC or MGF.*

---

**Foundations of Society & Human Behavior**
*(6 credit hours required)*
Student must take two of the following courses, one must be from group A. The second course may be from group A or group B.

**Group A**

- **History Department**
  - **AMH 2010** …… United States History Since 1877 *(P/F)*

- **Anthropology Department**
  - **ANT 2000** …… 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 2020** …… United States History to 1877 *(P/F)*

- **Economics Department**
  - **ECO 2023** …… Microeconomic Principles §

- **Political Science Department**
  - **ECP 2002** …… Contemporary Economic Issues

- **Exceptional Student Education Department**
  - **EEX 2091** …… Disability and Society

- **Geosciences Department**
  - **EVR 2017** …… Environment and Society

- **Psychology Department**
  - **PSY 2001** …… Psychology and Society

- **Sociology Department**
  - **SYG 2010** …… Race, Class, Gender, and Sexuality

- **Urban & Regional Planning Department**
  - **URP 2051** …… Designing the City

---

**Students must take at least one course with the prefix MAC or MGF.**

---

**College of Engineering and Computer Science**
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.

http://myfau.fau.edu

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

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 - (WAC) Writing across the curriculum course.

STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS

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

FOUNDATIONS IN GLOBAL CITIZENSHIP
(6 credit hours required)

Student must choose two (2) 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
  ____ 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

FOUNDATIONS OF HUMANITIES
(6 credit hours required)

Student must take two of the following courses, one 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 2010 .............. Interpretation of Fiction (WAC) ++
  ____ LIT 2030 .............. Interpretation of Poetry (WAC) ++
  ____ LIT 2040 .............. Interpretation of Drama (WAC) ++
  ____ LIT 2070 .............. Interpretation of Creative Nonfiction (WAC) ++

(online course)

STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS

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

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 - (WAC) Writing across the curriculum course.

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.
FOREIGN LANGUAGE (4-8 credits) – REQUIRED only for COMPUTER SCIENCE MAJOR

Students with more than one year of a foreign language in high school should enroll in the second half of the beginners foreign language class (ARA/CHI/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher level course. Proficiency for a first-level course can be earned by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor. CLEP exam credits meet this requirement: see the catalog.

- NOTE: Native Speakers of a foreign language must consult the Languages, Linguistics, and Comparative Literature Department regarding this requirement.
- NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

FREE ELECTIVES: Engineering students DO NOT have any electives. Engineering students must stick to the core curriculum.

MAJOR REQUIREMENTS

(All required major courses must earn a “C” or better)

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

__SPC 2608__ Public Speaking (Required for Computer Science & Geomatics majors ONLY)

SCIENCE REQUIREMENTS BY MAJOR

(All required science courses must earn a “C” or better)

Civil, Electrical, Geomatics, Mechanical, Ocean, and Computer Engineering:

__CHM 2045 & L__ General Chemistry 1 (4 cr. w/Lab) ‡ (REQUIRED)
__PHY 2048 & L__ General Physics 1 (5 cr. w/ Lab) ** (REQUIRED)
__PHY 2049 & L__ General Physics 2 (5 cr. w/ Lab) (REQUIRED)

Civil Engineering majors must also choose 1 from:

__BSC 1010 & L & D__ Biological Principles (4 credits including Lab & Discussion)
__GLY 2010C__ Physical Geology (4 cr. including Lab) (RECOMMENDED)

Computer Science:

__PHY 2048 & L__ General Physics 1 (5 cr. w/ Lab) ** (REQUIRED)
__PHY 2049 & L__ General Physics 2 (5 cr. w/ Lab) (REQUIRED)

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” and overall GPA of 2.5 or greater in a combination of the math and physics courses below. Calculation of the GPA will be based on the highest grade earned. Advance placement (AP) – a score of 5 is equivalent to an “A” and a score of 4 is equivalent to a “B”.

- Electrical and Computer Engineering: MAC 2311 & MAC 2312 = 2.5 GPA or MAC 2311 & PHY 2043 or PHY 2048 = 2.5 GPA.
- Ocean, Mechanical, Civil, Environmental & Geomatics Engineering: MAC 2311 & PHY 2043 or PHY 2048 = 2.5 GPA.
- Computer Science: COP 2220 & MAC 1140 & MAC 1114 = 2.5 GPA or COP 2220 & MAC 1147 = 2.5 GPA.

Incoming Freshman and students transferring with less than 30 credits contact:
Nicole Raymond
University Advising Services
Phone: (561) 297-3064

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