



## FLORIDA ATLANTIC UNIVERSITY

*All courses are three (3) credits unless otherwise indicated. Course selections should be made in consultation with an academic advisor.*

### PRE-PROFESSIONAL ENGINEERING PROGRAM (2013-2014)

College of Engineering & Computer Science

#### FOUNDATIONS OF WRITTEN COMMUNICATION (Gordon Rule Writing (GRW), 6 credits required)

(A grade of "C" or higher is required in each course)

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

**THE FOLLOWING COURSES CAN BE SUBSTITUTED FOR ENC 1102:**

- ANT 1471+ ..... Cultural Difference in a Globalized Society
- ANT 1930+ ..... University Honors Seminar in Writing (Permit Only)
- ENC 1939+ ..... Special Topic: College Writing II
- ENC 2452+ $\diamond$  ..... Honor Composition for Science
- NSP 1195+ ..... Being Cared For: Reflections from Other Side of Bed

*Students must take four (4) GRW Courses.*

*Two (2) must be taken from Foundations of Written Communications.  
\$170 additional courses are REQUIRED.*

#### FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR (6 credits required, select 2 courses from 2 different departments)

- Anthropology Department**
  - ANT 2000 & D ..... Introduction to Anthropology
- Economics Department**
  - ECO 2013# ..... Macroeconomic Principles
  - ECO 2023# ..... Microeconomic Principles
  - ECP 2002 ..... Contemporary Economic Issues
- Exceptional Student Education Department**
  - EEEX 2091 ..... Disability and Society
- Geosciences Department**
  - EVR 2017 ..... Environment and Society
- Political Science Department**
  - POS 2041 ..... Government of the United States
- Psychology Department**
  - PSY 1012 ..... General Psychology
- Public Administration Department**
  - PAD 2258 ..... Changing Env. of Soc., Bus., & Government
- Sociology Department**
  - SYG 1000 ..... Sociological Perspectives
  - SYG 2010 ..... Social Problems
- Urban & Regional Planning Department**
  - URP 2051 ..... Designing the City

#### FOUNDATIONS OF SCIENCE & THE NATURAL WORLD (8 credits required including Labs.)

- Chemistry \*** (Grade of "C" or higher required)
    - CHM 2045 & L ..... General Chemistry & Lab (4 cr) (Incl. Lab)
    - Pre-requisite of MAC 1105 – College Algebra
  - \* **The following courses are acceptable in the Computer Science program in lieu of Chemistry:**
  - Biology Department** (Grade of "C" or higher required)
    - BSC 1010 & L & D ..... Biological Principles (4 cr) (Incl Lab & Disc)
  - Geology Department** (Grade of "C" or higher required)
    - GLY 2010C ..... Physical Geology & Lab (4 credits)
- The following courses are required for all engineering programs:**
- Physics Department** (Grade of "C" or higher required)
    - PHY 2043 ..... Physics for Engineers I (3 credits)
    - (PHY 2048 (4 credits) is a substitute)
  - AND**
  - PHY 2048 L ..... General Physics I Lab (1 credit)
  - Pre-requisite of MAC 2281 - Calculus II for Engineers I or
  - MAC 2311 Calculus with Analytical Geometry I

#### FOUNDATIONS OF MATHEMATICS & QUANTITATIVE REASONING (Grade of "C" or higher required. 8 credits required)

**PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH CLASS**

**NOTE: Students must take at least one course with the prefix MAC or MGF from the list below**

- MAC 2281 ..... Calculus for Engineers I (4 credits) (1)
- MAC 2282 ..... Calculus for Engineers II (4 credits) (2)
- (1) MAC 2311 and MAC 2253 are substitutes.
- (2) MAC 2312 and MAC 2254 are substitutes

Calculus requires a solid background in Algebra and Trigonometry.

If you are not ready to take Calculus the following courses will provide the necessary background:

- MAC 1105 ..... College Algebra
- MAC 1114 ..... Trigonometry
- MAC 1140 ..... Precalculus Algebra
- MAC 1147 ..... Precalculus Algebra & Trig (5 credits)

#### FOUNDATIONS IN GLOBAL CITIZENSHIP

(Select 2 courses from 2 different departments)

At least 1 course must be Global Perspectives – (GP)

(6 credits required)

- Anthropology Department**
  - ANT 2410 ..... Culture and Society (GP)
- Curriculum, Culture, & Educational Inquiry Department**
  - EDF 2854 ..... Educated Citizen in Global Context (GP)
- Geography Department**
  - GEA 2000 & D ..... World Geography (GP)
- History Department**
  - AMH 2010 (P/F) ..... United States History to 1877
  - AMH 2020 (P/F) ..... United States History Since 1877
  - WOH 2012 & D++ ..... History of Civilization I (GRW) (GP)
  - WOH 2022 ..... History of Civilization II (GP)
- Languages, Linguistics, & Comparative Literature Department**
  - LAS 2000 ..... Intro to Caribbean & Latin American Studies
  - LIN 2607 ..... Global Perspectives on Language (GP)
- Philosophy Department**
  - PHI 2010 & D++ ..... Introduction to Philosophy (GRW)
- Political Science Department**
  - INR 2002 ..... Introduction to World Politics (GP)
- Sociology Department**
  - SYD 2790 ..... Race, Class, Gender, and Sexuality
  - SYF 2450 ..... Global Society (GP)
- Social Work Department**
  - SOW 1005 ..... Global Perspectives of Social Services (GP)

#### FOUNDATIONS OF CREATIVE EXPRESSION (6 credits req., select 2 courses from 2 different departments)

- Architecture Department**
  - ARC 2208 ..... Culture & Architecture
- Visual Art & Art History Dept. (EG majors cannot take P/F option)**
  - ARH 2000 (P/F) ..... Art Appreciation
- School of Communication & Multimedia Studies**
  - FIL 2000 & D ..... Film Appreciation
- English Department**
  - LIT 2010++ ..... Interpretation of Fiction (GRW)
  - LIT 2030++ ..... Interpretation of Poetry (GRW)
  - LIT 2040++ ..... Interpretation of Drama (GRW)
- Languages, Linguistics, & Comparative Literature Department**
  - LIT 2100 & D ..... Global Great Books
- Music Department**
  - MUL 2010 ..... History & Appreciation of Music
- Theater & Dance Department**
  - DAN 2100 ..... Appreciation of Dance
  - THE 2000 ..... Appreciation of Theater