

# FLORIDA ATLANTIC UNIVERSITY

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

## SECONDARY SCIENCE PHYSICS EDUCATION MAJOR (2011 – 2012)

College of Education  
Bachelor of Arts (BA) or Bachelor of Arts in Education (BAE)

### 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
- \_\_\_ ENC 1930+ ..... University Honors Seminar in Writing (Permit Only)
- \_\_\_ ENC 1939+ ..... Special Topic: College Writing II
- \_\_\_ ENC 2452+♦ ..... Advanced Composition for Science
- \_\_\_ NSP 1195+ ..... Being Cared For: Reflections from Other Side of Bed

**After completing this section, two additional (GRW) classes are required from two different departments. Choices are available in: Foundations in Global Citizenship and/or Foundations of Creative Expression.**

### 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**

- \_\_\_ EEX 2091 ..... Disability 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

**Geosciences Department**

- \_\_\_ EVR 2017 ..... Environment and Society

**Urban & Regional Planning Department**

- \_\_\_ URP 2051 ..... Designing the City

### FOUNDATIONS OF SCIENCE & THE NATURAL WORLD (13 credits required)

**(Courses to be taken from 2 different departments)  
(All labs and discussions are required)**

----- **8 credits in Biology or Chemistry are required:** -----

**Biology Department**

- \_\_\_ BSC 1011 & L & D ..... Biodiversity (4 cr. incl. Lab and Discussion)
- \_\_\_ BSC 1010 & L & D ..... Biological Principles (4 cr. incl. Lab & Disc)

### 2 Biology OR 2 Chemistry Courses

**Chemistry Department**

- \_\_\_ CHM 2045 & L† ..... General Chemistry I (4 credits Incl. Lab)
- \_\_\_ CHM 2046 & L ..... General Chemistry II (4 credits Incl. Lab)

----- **FOR B.A. & B.A.E. Degree:** -----

**Physics Department**

- \_\_\_ PHY 2048 & L\*\* ..... General Physics I (5 credits incl. Lab)

### 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 2311 Calculus with Analytic Geometry I (4 cr) (REQUIRED)
- \_\_\_ MAC 2312 Calculus with Analytic Geometry II (4 cr) (REQUIRED)
- \_\_\_ MAC 2313 Calculus with Analytic Geometry III (4 cr) (REQUIRED)

**Additional math courses are required.  
Consult with your academic advisor.**

### FOUNDATIONS IN GLOBAL CITIZENSHIP (Select 2 courses from 2 different departments) (6 credits required. At least 1 course from Global Perspectives)

----- **WESTERN IDENTITIES:** -----

**Sociology Department**

- \_\_\_ SYD 2790 ..... Race, Class, Gender, and Sexuality

**Philosophy Department**

- \_\_\_ PHI 2010++ ..... Introduction to Philosophy (GRW)

**History Department**

- \_\_\_ AMH 2010 (P/F) ..... United States History to 1877
- \_\_\_ AMH 2020 (P/F) ..... United States History Since 1877

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

- \_\_\_ LAS 2000 ..... Intro to Caribbean & Latin American Studies

----- **GLOBAL PERSPECTIVES (1 course required):** -----

**Anthropology Department**

- \_\_\_ ANT 2410 ..... Culture and Society

**Geography Department**

- \_\_\_ GEA 2000 & D ..... World Geography

**History Department**

- \_\_\_ WOH 2012 & D++ ..... History of Civilization I (GRW)
- \_\_\_ WOH 2022 ..... History of Civilization II

**Sociology Department**

- \_\_\_ SYP 2450 ..... Global Society

**Political Science Department**

- \_\_\_ INR 2002 ..... Introduction to World Politics

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

- \_\_\_ LIN 2607 ..... Global Perspectives on Language

**Curriculum, Culture, & Educational Inquiry Department**

- \_\_\_ EDF 2854 ..... Educated Citizen in Global Context

**Social Work Department**

- \_\_\_ SOW 1005 ..... Global Perspectives on Social Service

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

**Architecture Department**

- \_\_\_ ARC 2208 ..... Culture & Architecture

**Visual Art & Art History Department**

- \_\_\_ 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

**Theatre & Dance Department**

- \_\_\_ DAN 2100 ..... Appreciation of Dance
- \_\_\_ THE 2000 ..... Appreciation of Theatre

**STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS**  
*Course selections should be made in consultation with an advisor*

**Legend**

- +** - ENC 1101 is a prerequisite.
- ++** - Two Foundations of Written Communications classes are required before taking this class.
- #** - Sophomore standing (30 credits earned) is required.
- \*\*** - MAC 2281 or MAC 2311 is a prerequisite for this class. If a lab is needed take General Physics 1 Lab (PHY 2048 Lab).
- ◇** - A "B" in CHM 2045 and a grade of "C" or better in ENC 1101 in addition to a co-requisite of CHM 2051C is needed.
- GRW** - (WAC) Writing across the curriculum class.
- D** - A discussion is linked to the lecture. Students must register for the discussion in addition to the lecture.
- L** - A lab is linked to the lecture. Students must register for the lab in addition to the lecture.
- P/F** - Course may be taken pass (P) or fail (F) or for a letter grade. Indicate your preferred grading option during registration.
- ‡** - Corequisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025).

**FOREIGN LANGUAGE (0 - 8 credits, 1 or more courses in the same language) - REQUIRED FOR BA MAJOR ONLY**

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 (FOL/FRE/GER/GRE/GRK/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.*

**CLAS:** College Level Academic Skills (CLAS) requirements need to be met prior to graduation. See the university catalog for additional information.

*∄ NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE GORDON RULE WRITING REQUIREMENT. See the Freshman Academic Advising Services Office for details.*

41 credits	Intellectual Foundations Program
12 credits	Free Electives (Foreign Language taken for BA count as electives)
09 credits	Lower-Division College Requirements
24 credits	Professional Education
<u>34 credits</u>	<u>Major Content</u>
<b>120 CREDITS</b>	<b>TOTAL</b>

For additional information, please contact the College of Education Office for Academic and Student Services:  
 College of Education, Room 230  
 (561) 297-3570 or <http://www.coe.fau.edu/menu.htm>

**Note:** *To be admitted to a Teacher Education program, students must do the following:*

1. Have a minimum GPA of 2.5 on a 4.0 scale on the lower division undergraduate general education component.
2. Complete or satisfy CLAS requirements.
3. Passing scores on all sections of the General Knowledge (GK) test.
4. Meet the general university requirements for admission.
5. Be interviewed and recommended for admission.
6. Be programmed by an assigned advisor.
7. Be approved for admission by the College of Education.

## MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

### FREE ELECTIVES (12 credits)

Courses in any college, any department, including Education, needed to meet the 120 credits required for graduation.

### LOWER DIVISION COLLEGE REQUIREMENTS (9 credits):

EDF 2005	Intro to the Teaching Profession (15 observation hours) (3 credits)
EDF 2085	Intro to Diversity for Educators (15 observation hours) (3credits)
EME 2040	Introduction to Technology for Educators (3 credits) – ( <b>Online Course</b> )

### PROFESSIONAL EDUCATION (24 credits)

EDF 3210	Applied Learning Theory (3 credits)
EDF 3430	Educational Measurement and Evaluation (3 credits)
TSL 4324	ESOL Strategies for Content Area Teachers (3 credits)
SCE 4360	Science: Middle and Secondary School (3 credits)
RED 4335	Reading in the Content Areas (3 credits)
ESE 3940	Secondary School Effective Instruct (3 credits, 90 - hours plus security)
SCE 4944	Student Teaching: Physics 6 – 12 (6 - 12 credits) (Full-time internship, completed during a fall/spring term)

### PHYSICS MAJOR CONTENT (34 credits)

PHY 2049 + L	General Physics II + Lab (5 credits) ( <b>Prerequisite of PHY 2048 + L &amp; MAC 2312</b> )
PHZ 2106	General Physics III (4 credits)
PHY 3101C	Survey to Modern Physics (5 credits)
PHY 3323	Electromagnetism I (4 credits)

*Upper –Division Physics and Mathematics Electives must be approved by advisor*

### IMPORTANT NOTES:

Students registered in Education courses must purchase “Live Text” which is an on-line tool that will be used to track individual student competency mastery (CAs) in initial certification programs. For detailed information, please visit:

<http://www.coe.fau.edu/livetext/default.htm>

Field experience is a required component of some Education courses. All students requiring a field experience placement must have evidence of current security clearance. For detailed information, please visit:

<http://www.coe.fau.edu/students/oass/fieldexperience/default.aspx>