SECONDARY SCIENCE PHYSICS EDUCATION MAJOR (2017-2018)

FLORIDA ATLANTIC UNIVERSITY – INTELLECTUAL FOUNDATION PROGRAM 2017 – 2018

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

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.

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>
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</table>
| Biology Department
____ BSC 1010 & L & D Biological Principles (4 cr. Incl. Lab & Dis) | Biology Department
____ BSC 1011 & L & D Biodiversity (4 cr. incl Lab & Dis) |
| Chemistry Department
____ CHM 2045 & L General Chemistry 1 (4 cr. Incl. Lab) § | |
| Physics Department
____ PHY 2048 & L (REQUIRED) General Physics 1 (5 credits incl. Lab) ** | |

NOTE: Must select either BSC 1011 & 1010 or CHM 2045 & 2046 (all with labs).

(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.

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.

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| History Department
____ AMH 2020 & D .........U.S. History Since 1877 (P/F) (RECOMMENDED) | History Department
____ AMH 2010 & D .........U.S. History to 1877 (P/F) (RECOMMENDED) |
| Anthropology Department
____ ANT 2000 & D ......Introduction to Anthropology | Anthropology Department
____ MAC 1105 ...... College Algebra |
| Economics Department
____ ECO 2013 .................Macroeconomic Principles § | Economics Department
____ ECO 2023 .................Microeconomic Principles § |
| Political Science Department
____ POS 2041 .................Government of the United States | Political Science Department
____ MAC 2233 ...... Methods of Calculus |
| Psychology Department
____ PSY 1012 .................Introduction to Psychology | Psychology Department
____ SYG 2010 .................Social Problems (RECOMMENDED) |
| Sociology Department
____ SYD 2790 .................Race, Class, Gender, and Sexuality | Sociology Department
____ SYG 1000 .................Sociological Perspectives (RECOMMENDED) |
| Exceptional Student Education Department
____ EEX 2091 .................Disability and Society | Exceptional Student Education Department
____ URP 2051 ...... Designing the City |
| Geosciences Department
____ EVR 2017 .................Environment and Society | Geosciences Department
____ ECO 2023 .................Microeconomic Principles § |
| Public Administration Department
____ PAD 2258 .................Changing Environment of Soc., Bus., & Gov’t | Public Administration Department
____ URP 2051 ...... Designing the City |
| Sociology Department
____ SYD 2790 .................Race, Class, Gender, and Sexuality | Sociology Department
____ SYG 2010 .................Social Problems |

PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE

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| Foundations of Mathematics & 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. | Foundations of Mathematics & 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. |

<table>
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<tr>
<th>Group A</th>
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<tbody>
<tr>
<td>Math for Liberal Arts 1</td>
<td>Precalculus Algebra</td>
</tr>
<tr>
<td>Math for Liberal Arts 2</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>College Algebra</td>
<td>Precalculus Algebra &amp; Trigonometry (5 credits)</td>
</tr>
<tr>
<td>Calculus with Analytic Geometry 1 (4 credits) (REQUIRED)</td>
<td>Methods of Calculus</td>
</tr>
<tr>
<td>or any mathematics course for which one of the above courses is the direct prerequisite</td>
<td>Calculus with Analytic Geometry 2 (4 credits) (REQUIRED)</td>
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</table>

Course indications of 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.
### 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 (RECOMMENDED)

- **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) ++ (RECOMMENDED)
  - WOH 2022 ............... History of Civilization 2

**Students Assume Responsibility for Meeting All Graduation Requirements**

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

### 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 2100 ............... 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

- **English Department**
  - LIT 2010 ............... Introduction to World Literature

- **Philosophy Department**
  - PHI 2010 ............... Introduction to Philosophy (WAC) ++

- **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 2030 ............... Interpretation of Poetry (WAC) ++

- **Philosophy Department**
  - PHI 2040 ............... Interpretation of Drama (WAC) ++

- **Music Department**
  - MUL 2010 ............... Music Appreciation

- **Philosophy Department**
  - PHI 2070 ............... Interpretation of Creative Nonfiction (WAC) ++

**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.

**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

- [http://myfau.fau.edu](http://myfau.fau.edu)
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 (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.

All students must meet the Admissions Foreign Language requirement.

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.

<table>
<thead>
<tr>
<th>Credit</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>41</td>
<td>Intellectual Foundations Program</td>
</tr>
<tr>
<td>17</td>
<td>Free Electives (Foreign Language taken for BA count as electives)</td>
</tr>
<tr>
<td>9</td>
<td>Lower-Division College Requirements</td>
</tr>
<tr>
<td>24</td>
<td>Professional Education</td>
</tr>
<tr>
<td>29</td>
<td>Major Content</td>
</tr>
<tr>
<td>120</td>
<td>TOTAL</td>
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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. Submit passing scores on all sections of the General Knowledge (GK) test to the College of Education www.fl.nesinc.com
3. Meet the general university requirements for admission.
4. Complete FAU’s Intellectual Foundations Program or an AA Degree from a Florida State University or College.
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** (17 credits)
Courses in any college, any department, including Education, needed to meet the 120 credits required for graduation.

*-------------------------- 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)

### 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)* (3 credits)
- **EME 2040**  Introduction to Technology for Educators (3 credits) – *(Online Course)*

### 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 (29 credits)
- **PHY 2049 + L**  General Physics II + Lab (5 credits) *(Prerequisite of PHY 2048 + L & MAC 2312)*
- **PHZ 2106**  General Physics III (4 credits)
- **PHY 3101C**  Survey to Modern Physics (4 credits)
- **PHY 3323**  Electromagnetism I (4 credits)
- **PHY 3722**  Physical electronics (4 credits)

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

### SELECT TWO: (All courses are 4 credits each)
- **PHY 3503**  Thermodynamics
- **PHY 4604**  Quantum Mechanics I *(Corequisite: PHZ 3113)*
- **PHY 3221**  Classical Mechanics

**Must be programmed and taken the fall/spring semester prior to student teaching.**

**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](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](http://www.coe.fau.edu/students/oass/fieldexperience/default.aspx)