### 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 must be from group A or group B.

**Group A**

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

- **Chemistry Department**
  - **CHM 1020C** .......Contemporary Chemical Issues
  - **CHM 2045 & L** .......General Chemistry I (4 credits including Lab) ✷

- **Geosciences Department**
  - **ESC 2000** ............Blue Planet [online course]
  - **EVR 1001** ............Environmental Science and Sustainability

- **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) ***

**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** .......Chem. 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**
  - **PSC 2121** .......Physical Science

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

### FOUNDATIONS OF SCIENCE PHYSICS EDUCATION MAJOR (2015-2016)

### 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 must be from group A or group B.

**Group A**

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

- **Chemistry Department**
  - **CHM 1020C** .......Contemporary Chemical Issues
  - **CHM 2045 & L** .......General Chemistry I (4 credits including Lab) ✷

- **Geosciences Department**
  - **ESC 2000** ............Blue Planet [online course]
  - **EVR 1001** ............Environmental Science and Sustainability

- **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) ***

**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** .......Chem. 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**
  - **PSC 2121** .......Physical Science

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

$ 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.

(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.

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
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>Credits</th>
<th>Course Description</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>

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
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

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