## Secondary Science Biology Education Major (2017-2018)

**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 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.

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

**Group A**

- MGF 1106...... Math for Liberal Arts 1
- MGF 1107...... Math for Liberal Arts 2
- MAC 1105...... College Algebra (**REQUIRED** for CHM 2045 & Lab)
- STA 2023...... Introductory Statistics
- MAC 2311...... Calculus with Analytic Geometry 1 (4 credits)
  or any mathematics course for which one of the above courses is the direct prerequisite

**Group B**

- MAC 1140...... Precalculus Algebra
- MAC 1114...... Trigonometry
- MAC 1147...... Precalculus Algebra & Trigonometry (5 credits)
- MAC 2233...... Methods of Calculus (**REQUIRED**)
- MAC 2312 ...... Calculus with Analytic Geometry 2 (4 credits)

**Philosophy Department**

- PHI 2102 ...... Logic

**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.

**Group A**

- Biology Department
  - BSC 1010 & L & D (**REQUIRED**)
  - Biological Principles (4 cr. Incl. Lab & Dis)

- Chemistry Department
  - CHM 2045 & L (**REQUIRED**)
  - General Chemistry 1 (4 cr. Incl. Lab) *

- Physics Department
  - PHY 2121 (**REQUIRED**)
  - Physical Science

**Group B**

- Biology Department
  - BSC 1011 & L & D (**REQUIRED**)
  - Biodiversity (4 cr. incl Lab & Dis)

**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.**

**Exceptional Student Education Department**

- EEX 2091 ....................... Disability and Society

**Geosciences Department**

- EVR 2017 ....................... Environment and Society

**Public Administration Department**

- PAD 2258 ....................... Changing Environment of Soc., Bus., & Gov’t

**Sociology Department**

- SYD 2790   ....................... Race, Class, Gender, and Sexuality
- SYG 2010 ....................... Social Problems

**Urban & Regional Planning Department**

- URP 2051 ....................... Designing the City
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:
http://myfau.fau.edu
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
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 REQUIREMENT. See the University Advising Services Office for details.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>38</td>
<td>Intellectual Foundations Program</td>
</tr>
<tr>
<td>12</td>
<td>Free Electives (Foreign Language taken for BA count as electives)</td>
</tr>
<tr>
<td>09</td>
<td>Lower-Division College Requirements</td>
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<tr>
<td>24</td>
<td>Professional Education</td>
</tr>
<tr>
<td>37-38</td>
<td>Major Content</td>
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<tr>
<td>120 – 121</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 (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) (3 credits)
EME 2040 Introduction to Technology for Educators (3 credits)

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 (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: Biology 6 - 12 (6 credits) Full-time internship/Fall or Spring

MATHEMATICS REQUIREMENT
PSY 3234 Experimental Design & Statistical Inference (REQUIRED)

BIOLOGY MAJOR CONTENT (37-38 credits)
BSC 1010 + L Biological Principles + Lab (4 credits)
CHM 2046 + L General Chemistry II + Lab (4 credits)
PSC 2121 Physical Science (3 credits)
OCE 3008 Oceanography (3 credits)
or
OCE 4633 Marine Ecology (3 credits)
CHM 2210 Organic Chemistry (3 credits)
PCB 3063 Genetics (4 credits)
PCB 4043 Principles of Ecology (3 credits)*
MCB 3020 + L General Microbiology + Lab (4 credits)
or
PCB 4023 Molecular & Cell Biology (3 credits)
PCB 4723 + L Comparative Animal Physiology + Lab (4 credits)*
or
BOT 4503 +L Principles of Plant Physiology + Lab (4 credits)
Electives: Approved Science Electives (6 credits, including 3 credits upper division)

* See Catalog for possible prerequisites. Permission of instructor required.

** 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 (CASs) 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