**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.

**GEOLOGY MAJOR (2017-2018)**

Charles E. Schmidt College of Science
Bachelor of Science (BS)

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**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.*

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**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**

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

- Physics Department
  ___ PHY 2048 & L **(Required)**
  General Physics 1 (5 credits incl. Lab) **

**Group B**

- Geosciences Department
  ___ GLY 2010C **(Required)**
  Physical Geol. (4 cr. incl. Lab)
  ___ GLY 2100 **(Required)**
  History of Earth and Life

- Physics Department
  ___ PHY 2049 & L **(Required)**
  General Physics 2 (5 credits incl. Lab) **

(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.

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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.

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

**Group A**

___ MAC 1105 ...... College Algebra
___ STA 2023 ...... Introductory Statistics **(Required)**
___ MAC 2311 ...... Calc. w/Analytic Geometry 1 (4 cr.) **(Required)**
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
___ MAC 2312 ...... Calc. w/Analytic Geometry 2 (4 cr.) **(Required)**

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**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.

**Group A**

- History Department
  ___ AMH 2020 & D ...... United States History Since 1877 **(P/F)**

- Anthropology Department
  ___ ANT 2000 & D ...... Introduction to Anthropology

- Economics Department
  ___ ECO 2013 ............... Macroeconomic Principles §

- Political Science Department
  ___ POS 2041 ............... Government of the United States

- Psychology Department
  ___ PSY 1012 ............... Introduction to Psychology

- Sociology Department
  ___ SYG 1000 ............... Sociological Perspectives

**Group B**

- History Department
  ___ AMH 2010 & D ...... United States History to 1877 **(P/F)**

- Economics Department
  ___ ECO 2023 ............... Microeconomic Principles §
  ___ ECP 2002 ............... Contemporary Economic Issues

- 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

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University Advising Services
March 8, 2017
**STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS**

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

## 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

### Political Science Department
- ___ INR 2002 ..........Introduction to World Politics

### Languages, Linguistics, & Comparative Literature Department
- ___ 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) ++
- ___ WOH 2022 ..........History of Civilization 2

**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.

**[Go to MyFAU](http://myfau.fau.edu) 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

**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.

**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.**
FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) - REQUIRED FOR MAJOR

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.

NOTE: Native Speakers of a foreign language must consult the Languages, Linguistics, & 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>B.S.</th>
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<tbody>
<tr>
<td>32 credits</td>
</tr>
<tr>
<td>81 credits</td>
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<tr>
<td>7 credits</td>
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<tr>
<td><strong>120 CREDITS</strong></td>
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NOTE: Some colleges and departments have specific restrictions on course selection within the Intellectual Foundations Program (IFP), (see Lower Division College and Dept. requirements & recommended courses in the Admissions Policy section of the catalog). The requirements for some Intellectual Foundations Program courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

The College of Science has the following requirements:

(1) A grade of “C” or better is required in ALL GEOLOGY courses as part of the minimum degree requirements;
(2) Any course work in the major field transferred from another institution must be approved by the major dept.;
(3) No major course may be taken pass/fail;
(4) The maximum amount of credit which may be earned through co-op is 10 credits; some departments allow some of these credits to substitute for major courses, check with the department for specifics. All course selections should be made in consultation with an advisor.
MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

BACHELOR OF SCIENCE (BS) DEGREE IN GEOLOGY

Students must meet University Requirements for Arts and Humanities, Social Science, English and Foreign Language.

Additional course work, such as the second introductory class, in the IFP sciences courses is strongly recommended. Students should speak with their academic advisor for specific recommendations.

REQUIRED LOWER DIVISION CORE:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calc. w/Analytic Geometry 1</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calc. w/Analytic Geometry 2</td>
<td>4</td>
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<tr>
<td>STA 2032</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GLY 2010C</td>
<td>Physical Geology (including lab)</td>
<td>4</td>
</tr>
<tr>
<td>GLY 2100</td>
<td>History of Earth and Life</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045 &amp; Lab</td>
<td>General Chemistry I (including lab)</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048 &amp; Lab</td>
<td>General Physics 1 (including lab)</td>
<td>5</td>
</tr>
<tr>
<td>PHY 2049 &amp; Lab</td>
<td>General Physics 2 (including lab)</td>
<td>5</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>32 credits</strong></td>
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GEOLOGY CORE:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GLY 4200C</td>
<td>Mineralogy &amp; Crystal Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4310C</td>
<td>Petrology of Igneous and Metamorphic Rocks</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4500C</td>
<td>Stratigraphy &amp; Sedimentation</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4400C</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>GLY 4750C</td>
<td>Field Methods</td>
<td>3</td>
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<td>GLY 4790</td>
<td>Field Camp</td>
<td>6</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>25 credits</strong></td>
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GEOSCIENCE CORE:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GIS 3015C</td>
<td>Introduction to Mapping and GIS</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4451</td>
<td>Solid Earth Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4822</td>
<td>Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>9 credits</strong></td>
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ELECTIVES:

Choose 15 credits from the following list. Nine of the 15 credits must be at the 4000 level.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GLY 3603C</td>
<td>Paleontology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 3155C</td>
<td>Geology of Florida</td>
<td>3</td>
</tr>
<tr>
<td>GLY 3730</td>
<td>Coastal and Marine science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 4035C</td>
<td>Remote Sensing of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GIS 4043C</td>
<td>Principles of GIS</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4241</td>
<td>Environmental Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4700C</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4830</td>
<td>Engineering Geology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4832C</td>
<td>Intro to Hydrogeology Modeling and Aquifer Testing</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4280C</td>
<td>Water Resources</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>15 credits</strong></td>
</tr>
</tbody>
</table>

NOTE: A grade of “C” or better is required for all courses taken in the Geosciences Department.

NOTE: It is the student’s responsibility to complete coursework.