### GEOLOGY MAJOR (2015-2016)

**Foundations of Written Communication**

(6 credit hours required – Writing Across the Curriculum - WAC)

- **ENC 1101** ....... College Writing I (REQUARED)
- **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: The American Revolution

**Nursing Department (Department Permission Required)**

- **NSP 1195**+ ..... Being Cared For: Reflections from Other Side of Bed

*Note: Students must take at least one course with the prefix MAC or MGF.

**Foundations of Mathematics & Quantitative Reasoning**

(6 credit hours required – Grade of “C” or higher is required)

- **STA 2023** ....... Introductory Statistics (REQUARED)

**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
- **STA 2023** ....... Introductory Statistics (REQUARED)
- **MAC 2311** ............ Calc. w/Analytic Geometry 1 (4 credits) (REQUARED)

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 credits) (REQUARED)

**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 two of the following courses, one must be from group A.

The second course may be from group A or group B.

**Group A**

- **BSC 1005** & L & D .. Biodiversity (4 cr. including Lab & Discussion)
- **BSC 1011** & L & D .. Biodiversity (4 cr. including Lab & Discussion)

**Chemistry Department**

- **CHM 1020C** ........... Contemporary Chemical Issues
- **CHM 2054** & L ........ General Chemistry 1 (4 credits including Lab) *

**Geosciences Department**

- **ESC 2000** ............ Blue Planet (online course)
- **EVR 1001** ............ Environmental Science and Sustainability

**Physics Department**

- **AST 1002** ............ Introduction to Astronomy (P/F)
- **PHY 2048** & L ........ General Physics 1 (5 cr w/Lab) ** (REQUARED)
- **PHY 2053** ............ College Physics 1 (4 credits) ***

**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 .......... Chemistry for Health Sciences (4 cr. including Lab)
- **CHM 2038** ............ Chemistry in Modern Life (P/F)

**Engineering Dean Department**

- **ETG 2091** ............ Nature: Inter. of Sci., Eng., & the Humanities

**Geosciences Department**

- **GLY 2010C** ............ Physical Geology (4 cr. including Lab) (REQUARED)
- **GLY 2100** ............ History of Earth and Life (REQUARED)
- **MET 2010 & D** ........ Weather and Climate

**Physics Department**

- **PHY 2049** & L ........ General Physics 2 (5 cr w/Lab) ** (REQUARED)
- **PSC 2121** ............ Physical Science

**History Department**

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

**Anthropology Department**

- **ANT 2000** ............ Introduction to Anthropology (RECOMMENDED)

**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

**History Department**

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

**Economics Department**

- **ECO 2023** ............ Microeconomic Principles §
- **ECO 2025** ............ 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**

- **SYG 2790** ............ Race, Class, Gender, and Sexuality
- **SYG 2910** ............ Social Problems

**Urban & Regional Planning Department**

- **URP 2051** ............ Designing the City
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.

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.

Certain majors do not allow any electives.

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.

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 (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, 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.
- HONORS NOTE: Students can apply for the PSYCHOLOGY HONORS PROGRAM after completion of 60 credits, and before completion of 105 credits. Students must have a 3.2 overall & Psychology GPA to be admitted and retained in the Honors track.

<table>
<thead>
<tr>
<th>B.S.</th>
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</thead>
<tbody>
<tr>
<td>32 credits</td>
<td>Intellectual Foundations Program &amp; Foreign Language</td>
</tr>
<tr>
<td>32 credits</td>
<td>Science and Math</td>
</tr>
<tr>
<td>49 credits</td>
<td>Geology Major</td>
</tr>
<tr>
<td>7 credits</td>
<td>Electives</td>
</tr>
<tr>
<td>120 CREDITS</td>
<td>TOTAL</td>
</tr>
</tbody>
</table>

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>
</tr>
</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>
</tr>
<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</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>
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</table>

Subtotal: 32 credits

GEOLOGY CORE:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<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>
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<tr>
<td>GLY 4500C</td>
<td>Stratigraphy &amp; Sedimentation</td>
<td>4</td>
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<tr>
<td>GLY 4400C</td>
<td>Structural Geology</td>
<td>4</td>
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<tr>
<td>GLY 4750C</td>
<td>Field Methods</td>
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<tr>
<td>GLY 4790</td>
<td>Field Camp</td>
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Subtotal: 25 credits

GEOSCIENCE CORE:

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<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>
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</table>

Subtotal: 9 credits

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>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 3603C</td>
<td>Paleontology</td>
<td>3</td>
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<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>
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</tbody>
</table>

Subtotal: 15 credits

**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 45 credits of upper division coursework.