

FLORIDA ATLANTIC UNIVERSITY – INTELLECTUAL FOUNDATION PROGRAM 2023 – 2024

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

GEOSCIENCES - GEOLOGY FOCUS (2023-2024)

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

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:

- ____ ENC 1939 +.....Special Topic: College Writing
____ 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.

Group A

- ____ MAC 1105College Algebra
____ STA 2023Introductory Statistics **(REQUIRED)**
____ MAC 2311Calc. w/Analytic Geometry 1 (4 credits) **(REQUIRED)**
or any mathematics course for which one of the above courses is the direct prerequisite

Group B

- ____ COP 1031CComputer Programming & Data Literacy for Everyone **(For Non-College Engineering & Computer Science majors)**
____ MAC 1147Precalculus Algebra & Trigonometry (4 credits)
____ MAC 2210Intro Calculus w/Applications (4 credits) **(Permit Only)**
____ MAC 2233Methods of Calculus
____ MAC 2241Life Science Calculus 1 (4 credits)
____ MAC 2312Calculus with Analytic Geometry 2 (4 cr) **(REQUIRED)**
____ 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

Group B

- | | |
|---|---|
| ____ BSC 1010 & L (see note) Biological Principles (4 cr. Incl. Lab) | ____ BSC 1011 & L (see note) Biodiversity (4 cr. incl Lab) |
| ____ CHM 2045 & L (Required) General Chemistry 1 (4 cr. Incl. Lab) ‡ | ____ MET 2010 & D (Required) Weather, Climate & Climate Change |

NOTE: Student must select either BSC 1010 or BSC 1011 with a 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.

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

- ____ AMH 2020 & DUnited States History Since 1877 ♦
____ ANT 2000 & DIntroduction to Anthropology **(WAC)**
____ ECO 2013Macroeconomic Principles §
____ POS 2041.....Government of the United States ♦
____ PSY 1012Introduction to Psychology
Highly Recommended
____ SYG 1000.....Sociological Perspectives
Highly Recommended

Group B

- ____ AMH 2010 & DUnited States History to 1877
____ CCJ 2002.....Law, Crime & the Criminal Justice System ±
____ DIG 2202Digital Culture
____ ECO 2023Microeconomic Principles § **(Recommended)**
____ ECP 2002Contemporary Economic Issues
____ EEX 2091Disability and Society
____ EME 2620.....Digital Literacy in a Globally Connected World ✚
____ EVR 1110.....Climate Change: The Human Dimensions
(Required)
____ EVR 2017.....Environment and Society
____ LIN 2001.....Introduction to Language **(online course)**
____ PAD 2081Risk Resilience and Rising Seas ±
____ PAD 2258Changing Environment of Soc., Bus., & Gov't
____ SYG 2010.....Social Problems
____ URP 2051Designing the City

FOUNDATIONS IN GLOBAL CITIZENSHIP

(6 credit hours required)

Student must choose two (2) courses from among the following:

- ____ ANT 2410.....Culture and Society
 ____ EDF 2854Educated Citizen in Global Context
 ____ GEA 2000.....World Geography
 ____ INR 2002.....Introduction to World Politics
 ____ JST 2452Global Jewish Communities Ω
 ____ LAS 2000.....Intro to Caribbean & Latin American Studies
 ____ LIN 2607Global Perspectives on Language
 ____ MAR 2142Culture, Consumers and the Global Marketplace \mathbb{X}
 ____ MUH 2121Music in Global Society Ω
 ____ POT 2000.....Global Political Theory
 ____ SYP 2450.....Global Society
 ____ SOW 1005Global Perspectives of Social Services
 ____ SOW 1130Race and Cultural Inclusion in Social Work
 ____ WOH 2012 & D.....History of Civilization 1 (WAC) ++
 ____ WOH 2022.....History of Civilization 2
 ____ WST 2351Gender and Climate Change

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

- ____ ARH 2000 Art Appreciation
 ____ MUL 2010..... Music Appreciation
 ____ PHI 2010 & D..... Introduction to Philosophy (WAC) ++
 ____ THE 2000 Theatre Appreciation

Group B

- ____ ARC 2208..... Culture & Architecture
 ____ DAN 2100 Appreciation of Dance
 ____ FIL 2000 & D..... Film Appreciation
 ____ HUM 2471 Racism and Anti-Racism
 ____ LIT 2010..... Interpretation of Fiction (WAC) ++
 ____ LIT 2030..... Interpretation of Poetry (WAC) ++
 ____ LIT 2040..... Interpretation of Drama (WAC) ++
 ____ LIT 2070..... Interpretation of Creative Nonfiction (WAC) ++
 ____ LIT 2100..... Introduction to World Literature
 ____ LIT 2931..... Special Topics in Literature (WAC) ++ Ω
 ____ SPC 2608 Public Speaking \pm

**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.
 ** - 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).
 \pm - Starting Spring 2022
 Ω - Starting Spring 2023
 \mathbb{X} - Starting Fall 2023
 \diamond - See information box below regarding Civic Literacy Requirement
 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.

<https://myfau.fau.edu>

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

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.**

Civic Literacy Requirement

<https://www.fau.edu/ugstudies/civic-literacy-requirement/>

Beginning in Summer 2021, Florida Legislature amended the statute and now requires students to complete **both** a civic literacy course (AMH 2020 or POS 2041) and an assessment exam.

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/GRWREQUIREMENT. See the University Advising Services Office for details.*

| B.S. | |
|------------------------|---|
| 28 - 32 credits | Intellectual Foundations Program & Foreign Language (not including math or science) |
| 6 credits | IFP Math |
| 7 credits | IFP Natural Science |
| 59 - 60 credits | Geoscience Major |
| <u>15 - 20 credits</u> | <u>General Electives</u> |
| 120 CREDITS | TOTAL |

NOTE: See the catalog for specific requirements, course descriptions, and additional information. The requirements for some Intellectual Foundations Program (I.F.P.) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

The Geosciences Department has the following requirements:

(1) Students must get a **"C"** or higher in all Sciences, Math and Cognate courses to receive major credit

Note: A grade of C or better is required for all courses in this track.

Minors are available in this major -- see the catalog for details. All course selections should be made in consultation with an advisor.

Students must meet University Requirements for Arts and Humanities, Social Science, English, and Foreign Language. Students should speak with their academic advisor for specific recommendations.

MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

BACHELOR OF SCIENCE (BS) DEGREE IN GEOSCIENCES: GEOLOGY FOCUS

Core Courses (16 credits)

| | | |
|--|----------------|---|
| | MAC 2311 | Calculus with Analytic Geometry 1 (4 credits) |
| | MAC 2312 | Calculus with Analytic Geometry 2 (4 credits) |
| | CHM 2045 & Lab | General Chemistry 1 w/ Lab (4 credits) |
| | STA 2023 | Introductory Statistics (3 credits) |
| | PHY 2048 | General Physics 1 (4 credits) |
| | PHY 2049 | General Physics 2 (4 credits) |
| | GIS 3015C | Introduction to Mapping and GIS (3 credits) |
| | GEO 4920 | Geosciences Colloquium (1 credit) |

Geology Focus Core Courses (38 credits)

| | | |
|--|-----------|--|
| | GLY 2010C | Physical Geology/Evolution of the Earth (4 credits) |
| | GLY 2100 | History of Earth & Life (3 credits) |
| | GLY 4200C | Mineralogy & Crystal Chemistry (4 credits) |
| | GLY 4310C | Petrology of Igneous & Metamorphic Rocks (4 credits) |
| | GLY 4400C | Structural Geology (4 credits) |
| | GLY 4451 | Solid Earth Geophysics (3 credits) |
| | GLY 4500C | Stratigraphy & sedimentation (4 credits) |
| | GLY 4750C | Geology Field Methods (3 credits) |
| | GLY 4790 | Field Camp (6 credits) |
| | GLY 4822 | Hydrogeology (3 credits) |

Geoscience Electives (9 credits)

| | | |
|--|-----------|---|
| | GEO 4280C | Water Resources (3 credits) |
| | GIS 4035C | Remote Sensing of the Environment (3 credits) |
| | GIS 4043C | Principles of GIS (3 credits) |
| | GLY 3730 | Coastal & Marine Science (3 credits) |
| | GLY 4241 | Environmental Geochemistry (3 credits) |
| | GLY 3155C | Geology of Florida (3 credits) |
| | GLY 3603C | Paleontology (3 credits) |
| | GLY 4700C | Geomorphology (3 credits) |
| | GLY 4830 | Engineering Geology (3 credits) |
| | GLY 4832C | Introduction to Hydrogeology Modeling and Aquifer Testing (3 credits) |