### GEOSCIENCES - CLIMATE CHANGE FOCUS (2023-2024)

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

#### 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 1105 ....... College Algebra
- STA 2023 ....... Introductory Statistics (REQUIRED)
- MAC 2311 ..... Calc. w/Analytic Geometry 1 (4 credits)

**Group B**
- COP 1031C ....... Computer Programming & Data Literacy for Everyone (For Non-College Engineering & Computer Science majors)
- MAC 1147 ..... Precalculus Algebra & Trigonometry (4 credits)
- MAC 2210 ..... Intro Calculus w/Applications (4 credits) (Permit Only)
- MAC 2233 ..... Methods of Calculus (REQUIRED)

#### 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**
- BSC 1010 & L (see note) Biological Principles (4 cr. Incl. Lab)
- CHM 2045 & L (Required) General Chemistry 1 (4 cr. Incl. Lab) ‡

**Group B**
- BSC 1011 & L (see note) Biodiversity (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.

#### 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 & D ...... United States History Since 1877 ◊
- ANT 2000 & D ...... Introduction to Anthropology (WAC)
- ECO 2013 ........... Macroeconomic Principles §
- POS 2041 ............. Government of the United States ◊
- PSY 1012 ............. Introduction to Psychology
  - Highly Recommended
- SYG 1000 ............. Sociological Perspectives
  - Highly Recommended

**Group B**
- AMH 2010 & D ...... United States History to 1877
- CCJ 2002 ............ Law, Crime & the Criminal Justice System ±
- DIG 2202 ............ Digital Culture
- ECO 2023 ........... Microeconomic Principles § (Recommended)
- ECP 2002 ............ Contemporary Economic Issues
- EEX 2091 ............ Disability 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 2081 ............ Risk Resilience and Rising Seas ±
- PAD 2258 ............ Changing Environment of Soc., Bus., & Gov’t
- SYG 2010 ............ Social Problems
- URP 2051 ............ Designing the City

(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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Charles E. Schmidt College of Science
Bachelor of Science (BS)
**FOUNDATIONS IN GLOBAL CITIZENSHIP**
(6 credit hours required)
Student must choose two (2) courses from among the following:

- **ANT 2410** .............. Culture and Society
- **EDF 2854** ............... Educated Citizen in Global Context
- **GEA 2000** .............. World Geography
- **INR 2002** ............... Introduction to World Politics
- **JST 2452** ............... Global Jewish Communities
- **LAS 2000** ............... Intro to Caribbean & Latin American Studies
- **LIN 2607** ............... Global Perspectives on Language
- **MAR 2142** ............... Culture, Consumers and the Global Marketplace
- **MUH 2121** ............... Music in Global Society
- **PO 0000** ............... Global Political Theory
- **SOW 1005** ............. Global Perspectives of Social Services
- **SOW 1130** ............. Race and Cultural Inclusion in Social Work
- **WOH 2012 & D** ....... History of Civilization 1 (WAC) ++
- **WOH 2022** ............. History of Civilization 2
- **WST 2351** .............. Gender 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) ++
- **SPC 2608** .............. Public Speaking ±

**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).
± - Starting Spring 2022
Ω - Starting Spring 2023
Ｒ - Starting Fall 2023
◊ - 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.

**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.**

[https://myfau.fau.edu](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

**Civic Literacy Requirement**
[https://www.fau.edu/ugstudies/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/GRW REQUIREMENT. See the University Advising Services Office for details.

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<thead>
<tr>
<th>B.S.</th>
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<tbody>
<tr>
<td>28 - 32 credits</td>
<td>Intellectual Foundations Program &amp; Foreign Language (not including math or science)</td>
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<tr>
<td>6 credits</td>
<td>IFP Math</td>
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<tr>
<td>7 credits</td>
<td>IFP Natural Science</td>
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<tr>
<td>58 - 60 credits</td>
<td>Geoscience Major</td>
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<tr>
<td>15 - 21 credits</td>
<td>General Electives</td>
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<tr>
<td>120 CREDITS</td>
<td>TOTAL</td>
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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.
## BACHELOR OF SCIENCE (BS) DEGREE IN GEO SCIENCES: CLIMATE CHANGE FOCUS

### Core Courses (21-22 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC1005 &amp; Lab</td>
<td>Life Science w/ Lab (3 credits)</td>
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<tr>
<td>OR BSC 1010 &amp; Lab</td>
<td>Biological Principles w/ Lab (4 credits)</td>
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<tr>
<td>OR BSC 1011 &amp; Lab</td>
<td>Biodiversity w/ Lab (4 credits)</td>
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<tr>
<td>CHM 2045 &amp; Lab</td>
<td>General Chemistry 1 w/ Lab (4 credits)</td>
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<tr>
<td>ESC 2000 OR GEO 2200C OR GLY 2010C</td>
<td>The Blue Planet (3 credits) OR Intro to Physical Geography (3 credits) OR Physical Geology / Evolution of the Earth (4 credits)</td>
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<tr>
<td>STA 2023</td>
<td>Introductory Statistics (3 credits)</td>
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<tr>
<td>MAC 2233</td>
<td>Methods of Calculus (3 credits)</td>
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<tr>
<td>GIS 3015C</td>
<td>Introduction to Mapping and GIS (3 credits)</td>
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<tr>
<td>GEO 4920</td>
<td>Geosciences Colloquium (1 credit)</td>
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### Climate Change Focus Core Courses (30 credits)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MET 2010</td>
<td>Weather, Climate and Climate Change (3 credits)</td>
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<tr>
<td>BSC 4307</td>
<td>Climate Change Biology: Ecosystems to Human Health (3 credits)</td>
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<tr>
<td>ESC 3704</td>
<td>Environmental Issues in Atmospheric and Earth Science (3 credits)</td>
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<td>EVR 1110</td>
<td>Climate Change: The Human Dimensions (3 credits)</td>
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<td>EVR 3114</td>
<td>Climate Change: Myths, Realities and Solutions (3 credits)</td>
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<td>EVR 4112</td>
<td>Hazards, Climate and People (3 credits)</td>
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<td>GEO 3342</td>
<td>Sea-Level Rise: Impacts and Responses (3 credits)</td>
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<td>GEO 4022</td>
<td>Quantitative Methods (3 credits)</td>
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<tr>
<td>GIS 4035C</td>
<td>Remote Sensing of the Environment (3 credits)</td>
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<tr>
<td>GIS 4043C</td>
<td>Principles of Geographic Information Systems (3 credits)</td>
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### Geoscience & Interdisciplinary Electives (21 credits)

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BSC 3052</td>
<td>Conservation Biology (3 credits)</td>
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<tr>
<td>ECO 2023 OR ECO 3003</td>
<td>Microeconomic Principles OR Economic Principles and Policies (3 credits)</td>
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<td>ECP 4302</td>
<td>Environmental Economics (3 credits)</td>
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<td>ENV 3001C</td>
<td>Environmental Science and Engineering (3 credits)</td>
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<td>GEA 4275</td>
<td>RI: Human-Environmental Interactions in South Florida (3 credits)</td>
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<tr>
<td>GEO 4167C</td>
<td>Spatial Data Analysis (3 credits)</td>
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<tr>
<td>GEO 4200C</td>
<td>Water Resources (3 credits)</td>
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<td>GEO 4300</td>
<td>Biogeography (3 credits)</td>
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<tr>
<td>GEO 4915</td>
<td>Directed Independent Research in Geosciences (1-6 credits)</td>
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<tr>
<td>GIS 4140C</td>
<td>Mobile GIS and Drone Technology (3 credits)</td>
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<tr>
<td>GLY 3730</td>
<td>Coastal &amp; Marine Science (3 credits)</td>
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<tr>
<td>GLY 4241</td>
<td>Environmental Geochemistry (3 credits)</td>
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<td>GLY 4822</td>
<td>Hydrogeology (3 credits)</td>
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<td>GLY 4905</td>
<td>Directed Independent Study (1-3 credits)</td>
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<tr>
<td>INR 4054</td>
<td>Comparative Environmental Politics (3 credits)</td>
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<td>INR 4350</td>
<td>Global Environmental Politics and Policies (3 credits)</td>
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<tr>
<td>PAD 4393</td>
<td>Disaster and Emergency Management (3 credits)</td>
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<tr>
<td>PCB 4043</td>
<td>Principles of Ecology (3 credits)</td>
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<tr>
<td>SYP 4464</td>
<td>Sociology of Climate and Disaster (3 credits)</td>
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<td>URP 4403</td>
<td>RI: Sustainable Cities (3 credits)</td>
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<td>URP 4420</td>
<td>Environmental Planning Methods (3 credits)</td>
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<tr>
<td>URP 4430</td>
<td>Planning for Hazards/Disasters (3 credits)</td>
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