

GEOSCIENCES - CLIMATE CHANGE FOCUS (2022-2023)

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

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)**
- ___ MAC 2241 Life Science Calculus 1 (4 credits)
- ___ MAC 2312 Calculus with Analytic Geometry 2 (4 credits)
- ___ 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

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| <ul style="list-style-type: none"> ___ BSC 1010 & L & D (see note)
Biological Principles
(4 cr. Incl. Lab & Dis) ___ CHM 2045 & L (Required)
General Chemistry 1
(4 cr. Incl. Lab) ‡ | <ul style="list-style-type: none"> ___ BSC 1011 & L & D (see note)
Biodiversity (4 cr. incl Lab & Dis) ___ MET 2010 & D (Required)
Weather, Climate & Climate Change |
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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 & 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
- ___ 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

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

Group B

- ___ ARC 2208.....Culture & Architecture
- ___ DAN 2100Appreciation of Dance
- ___ FIL 2000 & D.....Film Appreciation
- ___ HUM 2471Racism 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 2608Public 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
- \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

(D) = Discussion, (L) = Lab

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Civic Literacy Requirement

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

Beginning in Fall 2018, students entering a Florida public institution as a degree-seeking student for the first time needs to demonstrate civic literacy through either taking a certain course (AMH 2020 or POS 2041) or passing an assessment exam. 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.

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/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>16 - 19 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: CLIMATE CHANGE FOCUS

Core Courses (21-22 credits)

	BSC 1010 & Lab OR BSC 1011 & Lab	Biological Principles w/ Lab (4 credits) OR Biodiversity w/ Lab (4 credits)
	CHM 2045 & Lab	General Chemistry 1 w/ Lab (4 credits)
	ESC 2000 OR GEO 2200C OR GLY 2010C	The Blue Planet (3 credits) OR Intro to Physical Geography (3 credits) OR Physical Geology / Evolution of the Earth (4 credits)
	STA 2023	Introductory Statistics (3 credits)
	MAC 2233	Methods of Calculus (3 credits)
	GIS 3015C	Introduction to Mapping and GIS (3 credits)
	GEO 4920	Geosciences Colloquium (1 credit)

Climate Change Focus Core Courses (30 credits)

	MET 2010	Weather, Climate and Climate Change (3 credits)
	BSC 4307	Climate Change Biology: Ecosystems to Human Health (3 credits)
	ESC 3704	Environmental Issues in Atmospheric and Earth Science (3 credits)
	EVR 1110	Climate Change: The Human Dimensions (3 credits)
	EVR 3114	Climate Change: Myths, Realities and Solutions (3 credits)
	EVR 4112	Hazards, Climate and People (3 credits)
	GEO 3342	Sea-Level Rise: Impacts and Responses (3 credits)
	GEO 4022	Quantitative Methods (3 credits)
	GIS 4035C	Remote Sensing of the Environment (3 credits)
	GIS 4043C	Principles of Geographic Information Systems (3 credits)

Geoscience & Interdisciplinary Electives (21 credits)

	BSC 3052	Conservation Biology (3 credits)
	ECO 2023 OR ECO 3003	Microeconomic Principles OR Economic Principles and Policies (3 credits)
	ECP 4302	Environmental Economics (3 credits)
	ENV 3001C	Environmental Science and Engineering (3 credits)
	GEA 4275	RI: Human-Environmental Interactions in South Florida (3 credits)
	GEO 4267	Spatial Data Analysis (3 credits)
	GEO 4280C	Water Resources (3 credits)
	GEO 4300	Biogeography (3 credits)
	GEO 4915	Directed Independent Research in Geosciences (1-6 credits)
	GIS 4140C	Mobile GIS and Drone Technology (3 credits)
	GLY 3730	Coastal & Marine Science (3 credits)
	GLY 4241	Environmental Geochemistry (3 credits)
	GLY 4822	Hydrogeology (3 credits)
	GLY 4905	Directed Independent Study (1-3 credits)
	INR 4054	Comparative Environmental Politics (3 credits)
	INR 4350	Global Environmental Politics and Policies (3 credits)
	PAD 4393	Disaster and Emergency Management (3 credits)
	PCB 4043	Principles of Ecology (3 credits)
	SYP 4464	Sociology of Climate and Disaster (3 credits)
	URP 4403	RI: Sustainable Cities (3 credits)
	URP 4420	Environmental Planning Methods (3 credits)
	URP 4430	Planning for Hazards/Disasters (3 credits)