

GEOLOGY MAJOR (2008 - 2009)**INTELLECTUAL FOUNDATIONS PROGRAM (I.F.P.) REQUIREMENTS (except Science) and FOREIGN LANGUAGE****ENGLISH COMPOSITION** (6 credits, two Gordon Rule courses, must get a C or better)

ENC 1101	College Writing 1 (Gordon Rule Writing) (3 credits)
ENC 1102	College Writing 2 (Gordon Rule Writing) (3 credits)

MATHEMATICS (6 credits minimum, two courses from the following list) (Gordon Rule, must get a C or better)**MUST TAKE A PLACEMENT TEST BEFORE REGISTERING FOR MATH COURSES**

MAC 1105	College Algebra (3 credits) - <i>Recommended if not ready to take MAC 2233</i>
MAC 1114	Trigonometry (3 credits) - <i>May be needed after MAC 1105 and before MAC 2311</i>
MAC 1140	Precalculus Algebra - <i>May be needed after MAC 1105 and before MAC 2311</i>
MAC 1147	Precalculus Algebra and Trigonometry (5 credits)
MAC 2233	Methods of Calculus (3 credits) - REQUIRED for B.S.
MAC 2311	Calculus with Analytic Geometry 1 (4 credits)
MAC 2312	Calculus with Analytic Geometry 2 (4 credits)
STA 2023	Introductory Statistics (3 credits) - REQUIRED
PHI 3132	Logic (3 credits)

SOCIAL SCIENCES (9 credits, 3 courses, from 3 departments) ◆

ANT 2000 (D)	Introduction to Anthropology (3 credits) – <i>Recommended</i>
ANT 2410	Culture & Society (3 credits)
GEA 2000 (D)	World Geography (3 credits) – <i>Recommended</i>
ECO 2023*	Microeconomic Principles (3 credits)
ECO 2013*	Macroeconomic Principles – <i>Recommended</i> (3 credits)
ECP 2002	Contemporary Economic Issues (3 credits) – <i>Recommended for non-business majors</i>
PAD 2258	Changing Environment of Society, Business & Government (3 credits)
POS 1041	The Government of the United States (3 credits)
INR 2002	Introduction to World Politics (3 credits)
PSY 1012	General Psychology (3 credits)
SYG 1000	Introductory Sociology (3 credits)
SYG 2010	Social Problems (3 credits)

* *Sophomore standing is a prerequisite***HUMANITIES** (9 credits, three courses) Choose **two** courses from **two** departments ◆

LIT 2020	Interpretation of Fiction (Gordon Rule Writing, C or better) (3 credits)
LIT 2030	Interpretation of Poetry (Gordon Rule Writing, C or better) (3 credits)
LIT 2040	Interpretation of Drama (Gordon Rule Writing, C or better) (3 credits)
WOH 2012 (D)	History of Civilization (Gordon Rule Writing, C or better) (3 credits)
PHI 2010 (D)	Introduction to Philosophy (Gordon Rule Writing, C or better) (3 credits)

and Choose **one** from the following five courses.

ARC 2208	Culture and Architecture: Master Builder (3 credits)
ARH 2000 (P/F)	Art Appreciation (3 credits)
MUL 2010	History and Appreciation of Music (3 credits)
THE 2000	Appreciation of Theater (3 credits)
FIL 2000 (D)	Film Appreciation (3 credits)
DAN 2100	Appreciation of Dance (3 credits)

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

Students with more than one year of foreign language in high school should enroll in Beginning Language and Culture 2 (FOL/FRE/GER/GRE/GRK/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Students can earn proficiency for a first-level course by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor.

NOTE: Native speakers of a foreign language must consult the Languages & Linguistics dept. regarding this requirement. CLEP exam credits meets this requirement, see catalog.

CLAST: Satisfy the College Level Academic Skills Test (CLAST) see Catalog for options.

◆ **NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE GORDON RULE WRITING REQUIREMENT.**
See Freshman Academic Advising Services for details.

BACHELOR OF SCIENCE (BS) DEGREE IN GEOLOGY

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

Minimum General Science Requirements:

Biodiversity & Lab	(BSC 1011 & BSC 1011L)	
or		
Biological Principles & Lab	(BSC 1010 & BSC 1010L)	4 credits
General Chemistry I & Lab	(CHM 2045 & CHM 2045L)	4 credits
General Physics I or College Physics I	(PHY 2048* or PHY 2053**)	
and		
General Physics I Lab	(PHY 2048L)	5 credits
Introduction to Statistics & Lab	(STA 2023)	3 credits
Methods of Calculus or higher	(MAC 2233)	3 credits
Subtotal		19 credits

* Prerequisite of a "C" in one these math courses: MAC 1114 / 1147 / 2233 / 2253 / 2241 / 2311

** Prerequisite of a "C" in MAC 2311 or MAC 2253

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

Geology Major Course Requirements:

Course Number	Title	Credits
GLY 2010 & 2010L	Physical Geology/Evolution of Earth	4
GLY 2100	History of Earth & Life	3
GLY 4500C	Stratigraphy/Sedimentation	4
GIS 3015C	Introduction to Mapping and GIS	3
GLY 4750C	Field Methods	3
GIS 4035C	Remote Sensing of the Environment	3
Subtotal		20 credits

Track 1 – Traditional Geology

GLY 3603C	Paleontology	3
GLY 4200C	Mineralogy & Crystal Chemistry	4
GLY 4310C	Petrology of Igneous and Metamorphic Rocks	4
GLY 4400 & 4400L	Structural Geology and Lab	4
GLY 4822	Hydrogeology	3
GLY 4790	Field Camp	6
Subtotal		24 credits

Electives: choose **one** course from the following:

GLY 3155C	Geology of Florida	3
GLY 3730	Coastal and Marine science	3
GLY 4241	Environmental Geochemistry	3
GLY 4700C	Geomorphology	3
GLY 4830	Engineering Geology	3
ESC 3704	Environmental Issues in Atmospheric & Earth Science	3
Subtotal		3 credits

Total Track Minimum

27 credits

Track 2 – Environmental Geoscience

GLY 3155C	Geology of Florida	3
GLY 4200C	Mineralogy & Crystal Chemistry	4
GLY 4241	Environmental Geochemistry	3
GLY 4822	Hydrogeology	3
GLY 4832C	Intro to Hydrogeology Modeling and Aquifer Testing	3
GLY 4790	Senior Field Camp	6
Subtotal		22 credits

Electives: choose **two** courses from the following:

GLY 3730	Coastal and Marine science	3
GEO 4022	Quantitative Methods	3
GEO 4280C	Water Resources	3
GIS 4043C	Principles of GIS	3
GLY 3603C	Paleontology	3
GLY 4700C	Geomorphology	3
GLY 4830	Engineering Geology	3
ESC 3704	Environmental Issues in Atmospheric & Earth Science	3
Subtotal		6 credits

Total Track Minimum

28 credits

Track 3 – Marine Geosciences

GLY 3155C	Geology of Florida	3
GLY 3603C	Paleontology	3
GLY 3730	Coastal and Marine science	3
GLY 4241	Environmental Geochemistry	3
GLY 4822	Hydrogeology	3
GLY 4790	Senior Field Camp	6
Subtotal		21 credits

Electives: choose 6 to 7 credits from the following:

GLY 4200C	Mineralogy & Crystal Chemistry	4
GEO 4280C	Water Resources	3
GLY 4700C	Geomorphology	3
GLY 4830	Engineering Geology	3
ESC 3704	Environmental Issues in Atmospheric & Earth Science	3
Subtotal		6 - 7 credits

Total Track Minimum**27 - 28 credits**

Additional undergraduate courses in geology, geography, general science and other subjects should be chosen in consultation with your advisor.

MINIMUM CREDITS REQUIRED B.S.

34 - 38	Intellectual Foundations Program (I.F.P.) & Foreign Language
19	Science & Math
49 - 50	Geology Major (B.S.)
13 - 19	Electives (3 credits must be upper division)
120	CREDITS TOTAL (45 credits at upper division)

BACHELOR OF ARTS (BA) WITH MAJOR IN GEOLOGY**BA in Geology (General Liberal Arts)**

Students must meet University Core Curriculum/Four-Year Degree Program Requirements as listed in the "Degree Requirements" section of the Undergraduate Catalog.

Minimum General Science Requirements:

Biodiversity & Lab	(BSC 1011 & BSC 1011L)	
or		
Biological Principles & Lab	(BSC 1010 & BSC 1010L)	4 credits
General Chemistry I & Lab	(CHM 2045 & CHM 2045L)	4 credits
General Physics I or College Physics I	(PHY 2048* or PHY 2053**)	
and		
General Physics I Lab	(PHY 2048L)	5 credits
College Algebra & Lab	(MAC 1105)	3 credits
Introduction to Statistics & Lab	(STA 2023)	3 credits
Subtotal		19 credits

* Prerequisite of a "C" in one these math courses: MAC 1114 / 1147 / 2233 / 2253 / 2241 / 2311

** Prerequisite of a "C" in MAC 2311 or MAC 2253

Geology Major Course Requirements

GIS 3015C	Introduction to Mapping & GIS	3
GLY 2010 & L	Physical Geology/Evolution of the Earth & Lab	4
GLY 2100	History of Earth & Life	3
GLY 4750C	Field Methods	3
MET 2010 & D	Weather Climate	3
Subtotal		15 credits
Additional	Upper Division GLY courses	15
Additional	EVR, GEO or GLY courses	9
Total in Major		40 credits

Additional undergraduate courses in geology, geography, general science and other subjects should be chosen in consolidation with your advisor.

BA in Geology or BA in Earth & Space Science**Minimum General Science Requirements:**

Biodiversity & Lab	(BSC 1011 & BSC 1011L)	
or		
Biological Principles & Lab	(BSC 1010 & BSC 1010L)	4 credits
General Chemistry I & Lab	(CHM 2045 & CHM 2045L)	4 credits
General Physics I or College Physics I	(PHY 2048* or PHY 2053**)	
and		
General Physics I Lab	(PHY 2048L)	5 credits
College Algebra & Lab	(MAC 1105)	3 credits
Introduction to Statistics & Lab	(STA 2023)	3 credits
Subtotal		19 credits

* Prerequisite of a "C" in one these math courses: MAC 1114 / 1147 / 2233 / 2253 / 2241 / 2311

** Prerequisite of a "C" in MAC 2311 or MAC 2253

Geology (Earth & Space Science) Major Course Requirements

AST 2002 (P/F)	Introduction to Astronomy	3
GIS 3015C	Intro. to Mapping & GIS	3
GLY 2010 & L	Physical Geology/Evolution of the Earth & Lab	4
GLY 2100	History of Earth & Life	3
GLY 3730	Coastal and Marine Science	3
GLY 4750C	Field Methods	3
MET 2010 & D	Weather Climate	3
Subtotal		22 credits

Minimum of four (5) courses chosen from:

ESC 3704	Environmental Issues in Atmospheric & Earth science	3
GLY 3165	Water, Waves & Caves: The Geologic Formation of National Parks & Monuments	3
GLY 3164	Fire, Ice & Wind: The Geologic Formation of National Parks & Monuments	3
GLY 3155C	Geology of Florida	3
GLY 3603C	Paleontology	3
GLY 4200C	Mineralogy & Crystal Chemistry	4
GLY 4310C	Petrology of Igneous & Metamorphic Rocks	4
GLY 4400 & L	Structural Geology & Lab	4
GLY 4500C	Stratigraphy & Sedimentation	4
GLY 4700C	Geomorphology	3
GLY 4822	Hydrogeology	3
Subtotal		15 - 19
Total in Major		37 - 41 credits

Additional undergraduate courses in geology, geography, general science and other subjects should be chosen in consolidation with your advisor.

MINIMUM CREDITS REQUIRED B.A.

34 - 38	Intellectual Foundations Program (I.F.P.) & Foreign Language
19	Science & Math
37 - 41	Geology Major (B.A.)
<u>22 - 30</u>	<u>Electives (12 credits must be upper division)</u>
120	CREDITS TOTAL (45 credits at upper division)

NOTE: Some colleges and departments have specific restrictions on course selection within the Intellectual Foundations Program (I.F.P.), (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 dept for specifics. *All course selections should be made in consultation with an advisor.*

STUDENTS ASSUME ALL RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS.

(05/08)