GEOLOGY, BACHELOR OF ARTS

To obtain a B.A. with a major in Geology, a student must fulfill university, college, and departmental requirements. Minimum hour requirements follow:

- 46 hours of University General Education courses (Most commonly, Geology majors do not complete 46 hours of coursework solely for the purpose of meeting University General Education requirements. Instead, they often test out of at least six hours of fundamental academic skills, take courses that meet both the three hours of U.S. Diversity requirements and three hours of social sciences requirements, meet five hours of humanities and 3 hours of global diversity requirements with a language course, and meet the seven-hour natural sciences distribution requirement through completing major courses. In such cases, the number of credit hours taken solely to meet General Education requirements is reduced to 22 or fewer.)
- 12 hours of college breadth requirement
- 16 hours of foreign language
- 70 hours of major courses

TOTAL HOURS: 120

Requirements

Geology is offered as a Bachelor of Arts or a Bachelor of Science degree. Students may choose one of two tracks to follow: a general Geology Track and a Geology Career Track. Requirements for each are below.

The required core courses for either the B.A. or B.S. degree in geology are:

Code	Title	Credits
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY	4
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING	3
GEOL 2750	MINERALOGY	3
GEOL 2754	MINERALOGY LABORATORY	1
GEOL 3300	STRUCTURAL GEOLOGY	3
GEOL 3310	STRUCTURAL GEOLOGY FIELD METHODS	1
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY	3
GEOL 4620	ADVANCED FIELD COURSE	6
Students must choose	one of the tracks below.	

For a B.A., the college requires completion of a foreign language through the intermediate level.

General Geology Track

In addition to the core geology requirements, students wishing to follow the general geology track must also take one of the following:

Code	Title	Credits
GEOL 4260	PROCESS GEOMORPHOLOGY	4
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE	4
GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
In addition, students of the following:	in the General geology track must take one	

GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ 3 **REGIONAL PLANNING/EARTH SCIENCE** SENIOR THESIS **GEOL 4950** 3 In addition, the major must select at least 12 hours of geology 12 or geography courses that should be chosen after consultation with an adviser. Required cognate courses are: An approved statistics course 3 FUNDAMENTALS OF COLLEGE **CHEM 1140** 4 CHEMISTRY FUNDAMENTALS OF COLLEGE **CHEM 1144** 1 CHEMISTRY LABORATORY **PHYS 1110** 4 **GENERAL PHYSICS I** GENERAL PHYSICS LABORATORY I PHYS 1154 1 Select one of the following options: Option 1: PHYS 1120 **GENERAL PHYSICS II** 4 PHYS 1164 **GENERAL PHYSICS LABORATORY II** 1 Option 2: **GEOL 4400** GEOPHYSICS 3

Geology Career Track

In addition to the core geology requirements, students wishing to follow the Geology career track must also take one of the following:

Code	Title	Credits
GEOL 4260	PROCESS GEOMORPHOLOGY	4
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE	4
GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
Additionally, students of the following:	in the Geology career track must take one	
GEOL 4800	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE	3
GEOL 4950	SENIOR THESIS	3
Students must also tal field courses, which ac chosen after consultat	te additional Geology/Geography/related- Id up to at least 12 credits, and should be ion with an advisor.	12
Required cognate cou	rses:	
Chemistry		
CHEM 1180	GENERAL CHEMISTRY I	3
CHEM 1184	GENERAL CHEMISTRY I LABORATORY	1
Select one of the follow	ving options:	
Option 1:		
CHEM 1190	GENERAL CHEMISTRY II	3
CHEM 1194	GENERAL CHEMISTRY II LABORATORY	1
Option 2:		
GEOL 4540	GEOCHEMISTRY	3
Math		
Select one of the follow	ving options:	
Option 1:		
MATH 1950	CALCULUS I	5
MATH 1960	CALCULUS II	4
Option 2:		
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES	3
Physics		
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	4
PHYS 1154	GENERAL PHYSICS LABORATORY I	1

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Select one of the following options: Option 1: PHYS 2120 **GENERAL PHYSICS-CALCULUS LEVEL** 4 PHYS 1164 **GENERAL PHYSICS LABORATORY II** 1 Option 2: **GEOL 4400** GEOPHYSICS 3 **Career Geology Track** Freshman Fall Credits INTRODUCTION TO PHYSICAL GEOLOGY **GEOL 1170** 4 3 **MATH 1930** CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (*) **FNGI 1160 ENGLISH COMPOSITION II (**)** 3 Foreign Language 1110-level*** 5 *MATH 1930: Requires MATH 1320 within the last two years, or Math ACT sub-score of 25 within the last two years, or appropriate Math Placement Exam score within the last two years. (As an alternative, students may opt to take MATH 1950 and MATH 1960 with proper placement.) **ENGL 1160: Requires ENGL 1150 with grade of C- or better or appropriate placement via EPPE or AP. ***Foreign Language 1110 is a humanity and global diversity Credits 15 Spring **GEOL 1180** INTRODUCTION TO HISTORICAL Δ **GEOLOGY** (*) **GENERAL CHEMISTRY I** Δ **CHEM 1180** and GENERAL CHEMISTRY I & CHEM 1184 LABORATORY (**) CMST 1110 PUBLIC SPEAKING FUNDS 3 or ARGUMENTATION AND DEBATE or CMST 2120 Foreign Language 1120 - level 5 *GEOL 1180: Requires GEOL 1170 (Consult your advisor prior to registration for this course.) **CHEM 1180: Please see the catalog for the most up-to-date prerequisites. Must take CHEM 1184 concurrently. Credits 16 Sophomore Fall GEOL 2750 MINERALOGY 4 & GEOL 2754 and MINERALOGY LABORATORY (*) GEOL 2300 GEOSCIENCE DATA ANALYSIS AND 3 MODELING (**) **Humanities and Fine Arts** 3 3 Foreign Language 2110-level *GEOL 2750: Requires GEOL 1170. Must take GEOL 2754 concurrently. **GEOL 2300: Requires GEOL 1010 or GEOL 1170 or GEOG 1030 or permission of instructor. Credits 13 Spring Approved GEOL Elective 4 **PHYS 2110** GENERAL PHYSICS L- CALCULUS LEVEL 5 & PHYS 1154 and GENERAL PHYSICS LABORATORY I (*) **CHEM 1190** GENERAL CHEMISTRY II (with lab**) 3-4 & CHFM 1194 or GEOCHEMISTRY or GEOL 4540 3 Foreign Language 2120-level

(MATH 1950 for non-GEOL majors), or Math ACT sub-score of 25, or appropriate Math Placement Exam score. **CHEM 1190: Please see the catalog for the most up-to-date prerequisites. 15-16 Credits Junior Fall **GEOL 3400** INTRODUCTION TO SEDIMENTARY 3 **GEOLOGY** (*) Approved GEOL elective**,** 4 **PHYS 2120** GENERAL PHYSICS-CALCULUS LEVEL 3-5 & PHYS 1164 (with lab[^]) or GEOL 4400 or GEOPHYSICS Social Science/US Diversity 3 *GEOL 3400: Requires GEOL 2750 and 2754 or permission of instructor **GEOL/GEOG 4640: Requires GEOL 1170 or GEOL 1010 or GEOG 1030; and one chemistry or physics course recommended ***120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives can help you reach these minimums. ^PHYS 2120: Requires PHYS 2110 and MATH 1930 for GEOL majors or MATH 1960 for non-GEOL majors. Credits 13-15 Spring **GEOL 3300** STRUCTURAL GEOLOGY 4 & GEOL 3310 and STRUCTURAL GEOLOGY FIELD METHODS (*) GEOL/GEOG 4260 PROCESS GEOMORPHOLOGY (**,***) 4 or GEOL 4640 or CRITICAL ZONE SCIENCE or GEOG 4640 or CRITICAL ZONE SCIENCE or GEOL 4330 or SOIL GENESIS, MORPHOLOGY or GEOG 4330 AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION Social Science 3 Humanities and Fine Arts[^] 3 *GEOL 3300: Requires GEOL 2750+2754 **GEOL 4260: Requires GEOG 1030 or GEOG 1050 or GEOL 1010 or GEOL 1170 ***GEOL/GEOG 4640: Requires GEOL 1170 or GEOL 1010 or GEOG 1030; and one chemistry or physics course recommended. GEOL/GEOG 4330: Requires GEOG 1030 or GEOG 1050 or GEOI 1010 or GEOI 1170 ^Humanities/Fine Arts #3 must be in a 2nd discipline. Credits 14 Summer ADVANCED FIELD COURSE (*,**) **GEOL 4620** 6 *GEOL 4620 is usually taken in the Summer between Junior and Senior Years. **GEOL 4620: Requires GEOL 1170; GEOL 1180; GEOL 2750; GEOL 2760; GEOL 3300 Credits 6 Senior Fall Approved GEOL elective 1 Humanities and Fine Arts for A&S or Minor/2nd Major course* 3

*PHYS 2110: Requires MATH 1930 for Geology majors

Social Science for A&S or Minor/2nd Major course*** 3 HIST 1010 or Minor/2nd Major Course^ 3 *A&S College Requirement Option. HFA for A&S must be from 3rd discipline. 3 **Social Science for University Gen Ed must be from a 2nd discipline 3 **XA&S College Requirement Option. Social Science for A&S must be from a 3rd discipline * *A&S College Requirement Option. Note: 120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives can help you reach these minimums. 13 Spring GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ 3 or GEOL 4950 3 or GEOL 4950 REGIONAL PLANNING/EARTH SCIENCE (^(*,**)) or SENIOR THESIS 3 EINGL 3980 TECHNICAL WRITING ACROSS THE DISCIPLINES (OR Upper Level Elective****) 3 Approved GEOL Elective 3 3 'GEOL 4800: Requires Senior status, major or area of concentration in geography or environmental science AND permission. If GEOL 4800 is taken, an advanced writing course such as ENGL 3980 must also be taken. ***GEOL 4950: Requires Senior status. If GEOL 4950 is taken, taking an advanced writing course such as ENGL 3980 must also be taken. ***ERGL 3980: Requires ENGL 1160 with grade of C- or better or appropriate placement via AP or EPPE. ENGL 3980 will not be needed if taking GEOL 4950. *CAS College Requirement Option. </th <th>General Geology Tr Freshman</th> <th>ack</th> <th></th>	General Geology Tr Freshman	ack	
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Social Science for A&S or Minor/2nd Major course*** 3 HIST 1010 or Minor/2nd Major Course^ 3 *A&S College Requirement Option. HFA for A&S must be from 3rd discipline. ***Social Science for University Gen Ed must be from a 2nd discipline ***A&S College Requirement Option. Social Science for A&S must be from a 3rd discipline ***A&S College Requirement Option. * Note: 120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives can help you reach these minimums. 13 Spring GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ 3 or GEOL 4950 3 or GEOL 4950 REGIONAL PLANNING/EARTH SCIENCE (*,**) or SENIOR THESIS 3 ENGL 3980 TECHNICAL WRITING ACROSS THE DISCIPLINES (OR Upper Level Elective***) 3 Approved GEOL Elective 3 3 *GEOL 4800: requires Senior status, major or area of concentration in geography or environmental science AND permission. If GEOL 4800 is taken, an advanced writing course such as ENGL 3980 must also be taken. **GEOL 4950: Requires Senior status. If GEOL 4950 is taken, taking an advanced writing course such as ENGL 3980 will not be needed for the writing requirements. ***ENGL 3980: Requires Senior status. If GEOL 4950 is taken, taking an advanced writing requirements. ***ENGL 3980: Requires ENGL 1160 with grade of C- or better or appropriate placement via AP or EPPE. ENGL 3980 specif	Credits		15
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Social Science for A&S or Minor/2nd Major course*** 3 HIST 1010 or Minor/2nd Major Course^ 3 *A&S College Requirement Option. HFA for A&S must be from 3rd discipline. *** ***Social Science for University Gen Ed must be from a 2nd discipline *** ***A&S College Requirement Option. Social Science for A&S must be from a 3rd discipline *** *A&S College Requirement Option. ** • Note: 120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives can help you reach these minimums. 13 Spring GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ 3 or GEOL 4950 3 or GEOL 4950 REGIONAL PLANNING/EARTH SCIENCE (*,**) or SENIOR THESIS 3 Approved GEOL Elective 3 3 MIST 1000 or Minor/2nd Major Course^ 3 3 *GEOL 4800: Requires Senior status, major or area of concentration in geography or environmental science AND permission. If GEOL 4800 is taken, an advanced writing course such as ENGL 3980 must also be taken. 3	***GEOL 4950: Requ taking an advanced not be needed for t	ures Senior status. If GEOL 4950 is taken, d writing course such as ENGL 3980 will the writing requirement but could still be call upper level requirements	
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Social Science for A&S or Minor/2nd Major course*** 3 HIST 1010 or Minor/2nd Major Course^ 3 *A&S College Requirement Option. HFA for A&S must be from 3rd discipline. ** **Social Science for University Gen Ed must be from a 2nd discipline 2 ***Social Science for University Gen Ed must be from a 2nd discipline ** **** A&S College Requirement Option. Social Science for A&S must be from a 3rd discipline * *A&S College Requirement Option. * Note: 120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives can help you reach these minimums.	Spring	Credits	13
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Social Science for A&S or Minor/2nd Major course***	HIST 1010 or Minor/2	nd Maior Course^	3
Social Science S	Social Science for A&S	S or Minor/2nd Major course***	3

Fall		Credits	c
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4	J
MATH 1220 or MATH 1300	COLLEGE ALGEBRA (*) or COLLEGE ALGEBRA WITH SUPPORT	3-4	
ENGL 1160	ENGLISH COMPOSITION II (**)	3	
Foreign Language 11 ⁻	10-level***	5	
*MATH: See the cat	talog for the most up-to-date prerequisites.		
**ENGL 1160: Requires ENGL 1150, or EPPE or AP placement.			_
***Foreign Language 1110 is a humanity/fine arts course and global diversity			
	Credits	15-16	G
Spring			8
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (*)	4	

CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (**)	5
Foreign Language 11	20-level	5
*GEOL 1180: Requ before enrolling fo	ires GEOL 1170 (Consult your advisor r this course)	
**CHEM 1140: See prerequisites. CHE	e the catalog for the most up-to-date IM 1144 must be taken concurrently.	
	Credits	14
Sophomore Fall		
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY (*)	4
Social Science/US Div	versity	3
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
Foreign Language 21	10-level	3
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (**)	3
*GEOL 2750: Requ concurrently.	ires GEOL 1170. GEOL 2754 must be taken	
**GEOL 2300: Req GEOG 1030 or per	uires GEOL 1010 or GEOL 1170 or mission of instructor.	
	Credits	16
Spring		
Approved GEOL Elect	ive	4
Foreign Language 21	10-level	3
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I (*)	5
*PHYS 1110: Requ or Math ACT sub-s Exam score.	ires MATH 1220 (or MATH 1300 or higher), core of 23, or appropriate Math Placement	
	Credits	12
Junior Fall		
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (*)	3
Approved GEOL Elect	ive**	3
PHYS 1120 & PHYS 1164 or GEOL 4400	GENERAL PHYSICS II (with lab***) or GEOPHYSICS	3-5
Humanities and Fine	Arts	3
Social Science		3
*GEOL 3400: Requ	ires GEOL 2750 and 2754	
**120 total credits minimum of 18 up major and 27 upp Selecting 3000-40 minimums.	are required for a degree, with a per level (3000-4000) credits in the er level credits throughout the degree. 00 level electives can help you reach these	
	Credits	15-17
Spring		
GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (*)	4

GEOL/GEOG 4260 or GEOL 4640	PROCESS GEOMORPHOLOGY (**) or CRITICAL ZONE SCIENCE	4	ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES (OR Upper Level Elective***)	3
or GEOG 4640 or GEOL 4330 or GEOG 4330	or CRITICAL ZONE SCIENCE or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY		Approved GEOL e *GEOL 4260: R GEOL 2760; GI **GEOL 4800:	elective Requires GEOL 1170; GEOL 1180; GEOL 2750; EOL 3300 Requires Senior status, major or area of	3
GEOL elective***	AND CLASSIFICATION	2-3	concentration permission.	in geography or environmental science AND	
Social Science [^]		3	**GEOL 4950:	Requires Senior status.	
HIST 1010 or Minor/	2nd Major course#	3	***ENGL 3980:	Requires ENGL 1160 with grade of C- or	
*GEOL 3300: Req	uires GEOL 2750+2754		better or appro	opriate placement via EPPE or AP.	
**GEOL 4260: Red GEOL 1010 or GE	quires GEOG 1030 or GEOG 1050 or OL 1170		Note: If studen Discipline requ	its take GEOL 4950, the Writing in the irement will be fulfilled. If students select	
**GEOL/GEOG 46 or GEOG 1030; an recommended	40: Requires GEOL 1170 or GEOL 1010 nd one chemistry or physics course		GEOL 4800, th as ENGL 3980. require ENGL ²	ey must take a separate WID course, such . ENGL 3980 or other approved WID courses 1160.	
**GEOL/GEOG 43 GEOL 1010 or GE	30: Requires GEOG 1030 or GEOG 1050 or OL 1170		Note: 120 tota a minimum of major and 27 (I credits are required for a degree, with 18 upper level (3000-4000) credits in the upper level credits throughout the degree	
minimum of 18 up major and 27 upp	ts are required for a degree, with a oper level (3000-4000) credits in the per level credits throughout the degree.		Selecting 3000 minimums.)-4000 level electives can help you reach these	
Selecting 3000-40	000 level electives can help you reach these			Credits	13
minimums.				Total Credits	122-126
^ Social Science n	nust be in a 2nd discipline.				
#CAS College Req	uirement Option.	46.47	This roadmap is a	suggested plan of study and does not replace me	etina
Summor	Creatts	10-17	with an advisor. P	lease note that students may need to adjust the a	ctual
		6	sequence of cours	ses based on course availability. Please consult an	advisor
*GEOL 4620 is us	Advanced filed cookse (,)	0	in your major prog	gram for further guidance.	
and Senior Years.			This plan is not a	contract and curriculum is subject to change	
**GEOL 4620: Red GEOL 2760; GEO	uires GEOL 1170; GEOL 1180; GEOL 2750; _ 3300		Additional Infor University Degre	mation About this Plan: ee Requirements: The minimum number of hour	s
	Credits	6	for a UNO underg	raduate degree is 120 credit hours. Please review	the
Senior			requirements for y	your specific program to determine all requiremen	its for
Fall			the program. In o	raer to graduate on-time (four years for an underg	Iraduate
Humanities and Fine	Arts*	3	uogroo <i>ji you</i> neeu		
Additional Humanity course**	/Fine Arts for A&S or Minor/2nd Major	3	Placement Exan exam may be requ	ns: For Math, English, Foreign Language, a placer uired. More information on these exams can be fo	nent und
Statistics course		3	at https://www.ur	nomaha.edu/enrollment-management/testing-cen	ter/
HIST 1000 or Minor/	2nd Major Course***	3	placement-exams	/information.php	
Additional Social Sci	ence for A&S or Minor/2nd Major course^	3	**Transfer credit o	or placement exam scores may change suggested	plan of
*Humanities/Fine	Arts must be in a 2nd discipline.		study		
**A&S College Re from a 3rd discipl	quirement Option. Additional HFA must be ine.				
***A&S College R	equirement Option.				
^A&S College Req from 3rd disciplin	uirement Option. Additional SS must come e.				
 Note: 120 tot a minimum of major and 27 Selecting 300 these minimu 	al credits are required for a degree, with 7 18 upper level (3000-4000) credits in the upper level credits throughout the degree. 0-4000 level electives can help you reach ms.				
	Credits	15			
Spring					
GEOL 4260	PROCESS GEOMORPHOLOGY (*)	4			
		.,			

GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ or GEOL 4950 REGIONAL PLANNING/EARTH SCIENCE (**)

or SENIOR THESIS