## **GEOLOGY, BACHELOR OF ARTS**

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

#### **Geology, Bachelor of Arts** - Geology General Track Requirements

Code	litie	Creatts
GENERAL ED	DUCATION REQUIREMENTS - 46 Hou	irs
Required		
Minimum of "	C-"required	

William of C required				
<b>Fundamental Acad</b>	Fundamental Academic Skills			
ENGL 1150	ENGLISH COMPOSITION I			
ENGL 1160	ENGLISH COMPOSITION II			
GEOL 4950	SENIOR THESIS (Writing in the Discipline Course)			
CMST 1110	PUBLIC SPEAKING FUNDS			
or CMST 2120	ARGUMENTATION AND DEBATE			
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING			
or MATH 1100	DATA LITERACY AND VISUALIZATION			
or MATH 1130	QUANTITATIVE LITERACY			
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS			
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT			
or STAT 1100	DATA LITERACY AND VISUALIZATION			
or STAT 1530	ELEMENTARY STATISTICS			

31 **Distribution Requirements** Natural Science - From two disciplines and at least one lab -

7 hrs

Social Science - From two disciplines - 9 hrs

Humanities and Fine Arts - From two disciplines- 9 hrs

Global Diversity - 3 hrs

US Diversity - 3 hrs

#### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

Select one of the following

Geology	Major, Gene	eral Geology - (	63-65 Hours	Required	
Required	l Coursewoi	·k			

Required Coursew	vork	28
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (^)	
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (^)	
<b>GEOL 2750</b>	MINERALOGY (^)	
GEOL 2754	MINERALOGY LABORATORY (^)	
<b>GEOL 3300</b>	STRUCTURAL GEOLOGY (^)	
GEOL 3310	STRUCTURAL GEOLOGY FIELD METHODS (^)	
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (^)	
GEOL 4620	ADVANCED FIELD COURSE (^)	

GEOL 4260	PROCESS GEOMORPHOLOGY (^)	
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE (^)	
GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)	
Select one of the fo	llowing	3
GEOL 4800	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (^)	
GEOL 4950	SENIOR THESIS (** ^)	
Additional Geology consultation with a	or Geography courses in dvisor	12
An approved Statis	tics course	3
Other required cou	rsework	10
CHEM 1140	FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)	
CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
PHYS 1110	GENERAL PHYSICS I (** ^)	
PHYS 1154	GENERAL PHYSICS LABORATORY I (** ^)	
Select one of the fo	llowing options	3-5
PHYS 1120	GENERAL PHYSICS II	
PHYS 1164	GENERAL PHYSICS LABORATORY II (^)	
OR		
GEOL 4400	GEOPHYSICS (^)	
College Breadth (ch	oose one option)	<b>15-30</b> +
Option 1: Complete a certificate - 15+ hours	ny UNO minor or undergraduate	
Option 2: Additional G hours	General Education Requirements - 19+	
Additional quantito	tive literacy -3 hours	
Additional Social So hours	cience Gen. Ed. from 3rd Discipline - 3	
Additional Humani	ties Gen. Ed. from 3rd Discipline - 3 hours	
HIST 1000 and HIS	T 1010 - 6 hours	
Additional Nat. and	d Physical Science w/ Lab - 4-5 hours	
Option 3: CAS compre UNO major (30+ hour	ehensive major (50+ hours) OR any second s)	
Bachelor of Arts La	nguage Requirement	16

### **Geology, Bachelor of Arts** - Geology Career Track Requirements

FREN, GERM, Or SPAN, 1110\*\*, 1120, 2110, 2120

Elective hours as required to reach a total of 120 hours

Code	Title	Credits
General Education	on Requirements	
Minimum of "C-"re	quired	
Fundamental Ac	ademic Skills - 15 Hours Required	
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	ENGLISH COMPOSITION II	
GEOL 4950	SENIOR THESIS (Writing in the Discipline Course)	
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 212	0 ARGUMENTATION AND DEBATE	

<sup>^</sup>Course requires pre-requisite(s)

	MATH 1120	INTRODUCTION TO MATHEMATICAL	
		AND COMPUTATIONAL THINKING	
	or MATH 1100	DATA LITERACY AND VISUALIZATION	
	or MATH 1130	QUANTITATIVE LITERACY	
	or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
	or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
	or STAT 1100	DATA LITERACY AND VISUALIZATION	
_	or STAT 1530	ELEMENTARY STATISTICS	
Di	•	ements - 31 Hours Required	
	7 hrs	rom two disciplines and at least one lab -	
		m two disciplines - 9 hrs	
	Global Diversity - 3	ne Arts - From two disciplines- 9 hrs	
	US Diversity - 3 hrs	1115	
М	AJOR REQUIREM	ENTS	
		NO's General Education requirement	
	•	logy Career - 64-74 Hours Required	
Re	equired Coursewo	rk	28
	GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY  (**)	
	GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (^)	
	GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (^)	
	GEOL 2750	MINERALOGY (^)	
	GEOL 2754	MINERALOGY LABORATORY (^)	
	GEOL 3300	STRUCTURAL GEOLOGY (^)	
	GEOL 3310	STRUCTURAL GEOLOGY FIELD METHODS (^)	
	GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (^)	
	GEOL 4620	ADVANCED FIELD COURSE (^)	
Se	elect one of the fo	-	4
	GEOL 4260	PROCESS GEOMORPHOLOGY (^)	
	,	CRITICAL ZONE SCIENCE (^) SOIL GENESIS, MORPHOLOGY AND	
	GLOL/GLOG 4330	CLASSIFICATION (^)	
Se	elect one of the fo	llowing	3
	GEOL 4800	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (^)	
	GEOL 4950	SENIOR THESIS (^)	
		or Geography courses in dvisor - 12 Hours Required	12
A	dditional Chemist	ry coursework	4
	CHEM 1180	GENERAL CHEMISTRY I (** ^)	
	CHEM 1184	GENERAL CHEMISTRY I LABORATORY (^)	
Se		llowing Chemistry options	3-4
	CHEM 1190 CHEM 1194	GENERAL CHEMISTRY II (^) GENERAL CHEMISTRY II LABORATORY	
O		GLIVENAL CITEWISTRY II LABORATORY	
J	GEOL 4540	GEOCHEMISTRY (^)	
Se		llowing Mathematics options	3-9
	MATH 1950	CALCULUS I (^)	
	MATH 1960	CALCULUS II	
	D		

MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)	
Take the following I	Physics Courses	5
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	
PHYS 1154	GENERAL PHYSICS LABORATORY I	
Select one of the fo	llowing options	3-5
PHYS 2120	GENERAL PHYSICS-CALCULUS LEVEL (^)	
PHYS 1164	GENERAL PHYSICS LABORATORY II (^)	
OR		
GEOL 4400	GEOPHYSICS	
College Breadth (cl	noose one option)	<b>15-30</b> +
Option 1: Complete a certificate - 15+ hours	ny UNO minor or undergraduate	
Option 2: Additional C	General Education Requirements - 19+	
Additional quantito	ative literacy - 3 hours	
Additional Social S hours	cience Gen. Ed. from 3rd Discipline - 3	
Additional Humani	ties Gen. Ed. from 3rd Discipline - 3 hours	
HIST 1000 and HIS	T 1010 - 6 hours	
Additional Nat. and	d Physical Science w/ Lab - 4-5 hours	
Option 3: CAS compre UNO major (30+ hour	ehensive major (50+ hours) OR any second rs)	
<b>Bachelor of Arts La</b>	nguage Requirement	16
FREN, GERM, Or SPAN	N, 1110**, 1120, 2010, 2020	
ELECTIVES		
Elective hours as requ	ired to reach a total of 120 hours	
Geology, I	Bachelor of Arts -	

### Geology, Bachelor of Arts -Career Track Four Year Plan

Freshman		
Fall		Credits
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (*)	3
ENGL 1160	ENGLISH COMPOSITION II (**)	3
Foreign Language 11	10-level***	5
or Math ACT sub-s appropriate Math two years. (As an o	uires MATH 1320 within the last two years, core of 25 within the last two years, or Placement Exam score within the last ulternative, students may opt to take IATH 1960 with proper placement.)	
	uires ENGL 1150 with grade of C- or better cement via EPPE or AP.	
***Foreign Langua	ge 1110 is a humanity and global diversity	
	Credits	15
Spring		
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (*)	4
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (**)	4
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
Foreign Language 11	20 – level	5

\*GEOL 1180: Requires GEOL 1170 (Consult your advisor prior

to registration for this course.)

OR

	Please see the catalog for the most up-to-date flust take CHEM 1184 concurrently.		GEOL/GEOG 4260 or GEOL 4640	PROCESS GEOMORPHOLOGY (**,***) or CRITICAL ZONE SCIENCE	4
	Credits	16	or GEOG 4640	or CRITICAL ZONE SCIENCE	
Sophomore			or GEOL 4330 or GEOG 4330	or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	
Fall			01 0100 4330	or SOIL GENESIS, MORPHOLOGY	
GEOL 2750	MINERALOGY	4		AND CLASSIFICATION	
& GEOL 2754	and MINERALOGY LABORATORY (*)		Social Science		3
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND	3	Humanities and Fin	e Arts^	3
II w Lee	MODELING (**)	•	*GEOL 3300: Red	quires GEOL 2750+2754	
Humanities and Fi		3	**GEOL 4260: Re	equires GEOG 1030 or GEOG 1050 or	
Foreign Language		3	GEOL 1010 or G	EOL 1170	
concurrently.	equires GEOL 1170. Must take GEOL 2754		,	4640: Requires GEOL 1170 or GEOL 1010	
•	equires GEOL 1010 or GEOL 1170 or			and one chemistry or physics course GEOL/GEOG 4330: Requires GEOG 1030 or	
	permission of instructor.			EOL 1010 or GEOL 1170	
	Credits	13		e Arts #3 must be in a 2nd discipline.	
Spring				Credits	14
Approved GEOL Ele	ective	4	Summer	0.000	
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	5	GEOL 4620	ADVANCED FIELD COURSE (*,**)	6
& PHYS 1154	and GENERAL PHYSICS LABORATORY I  (*)		*GEOL 4620 is u	sually taken in the Summer between Junior	
CHEM 1190	GENERAL CHEMISTRY II (with lab**)	3-4		equires GEOL 1170; GEOL 1180; GEOL 2750;	
& CHEM 1194 or GEOL 4540	or GEOCHEMISTRY		GEOL 2760; GEO	DL 3300	
Foreign Language	2120-level	3		Credits	6
*PHYS 2110: Re	quires MATH 1930 for Geology majors		Senior		
(MATH 1950 for	non-GEOL majors), or Math ACT sub-score of		Fall		
	ate Math Placement Exam score.		Approved GEOL ele		1
	Please see the catalog for the most up-to-date			e Arts for A&S or Minor/2nd Major course*	3
prerequisites.			Social Science**		3
	Credits	15-16		&S or Minor/2nd Major course***	3
Junior				/2nd Major Course^	3
Fall			^A&S College Re 3rd discipline.	quirement Option. HFA for A&S must be from	
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (*)	3	•	for University Gen Ed must be from a 2nd	
Approved GEOL ele	. ,	4	discipline	ion diniversity den zu mast be nom a zha	
PHYS 2120	GENERAL PHYSICS-CALCULUS LEVEL	3-5	***A&S College F	Requirement Option. Social Science for A&S	
& PHYS 1164 or GEOL 4400	(with lab^) or GEOPHYSICS	3-3	must be from a 3		
Social Science/US		3	•	tal credits are required for a degree, with	
	equires GEOL 2750 and 2754 or permission of	J	a minimum d	of 18 upper level (3000-4000) credits in the 7 upper level credits throughout the degree.	
**GEOL/GEOG	4640: Requires GEOL 1170 or GEOL 1010 and one chemistry or physics course		•	00-4000 level electives can help you reach	
recommended					
***120 total cre	dits are required for a degree, with a			Credits	13
	upper level (3000-4000) credits in the		Spring		
	pper level credits throughout the degree. 4000 level electives can help you reach these		GEOL 4800 or GEOL 4950	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (*,**)	3
	quires PHYS 2110 and MATH 1930 for GEOL I 1960 for non-GEOL majors.		ENGL 3980	or SENIOR THESIS TECHNICAL WRITING ACROSS THE	3
	Credits	13-15	A 1000151	DISCIPLINES (OR Upper Level Elective***)	
Spring			Approved GEOL Ele		3
GEOL 3300	STRUCTURAL GEOLOGY	4	Upper Level Elective		3
& GEOL 3310	and STRUCTURAL GEOLOGY FIELD			//2nd Major Course^	3
	METHODS (*)		concentration in	quires Senior status, major or area of geography or environmental science AND OL 4800 is taken, an advanced writing	

course such as ENGL 3980 must also be taken.

\*\*\*ENGL 3980: Requires ENGL 1160 with grade of C- or better or appropriate placement via AP or EPPE. ENGL 3980 specifically will not be needed if taking GEOL 4950.

^CAS College Requirement Option.

С	redits	15
To	otal Credits	120-123

# Geology, Bachelor of Arts -

General	Track Four Year Plan	)
Freshman		
Fall		Credits
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
MATH 1220 or MATH 1300	COLLEGE ALGEBRA (*) or COLLEGE ALGEBRA WITH SUPPORT	3-4
ENGL 1160	ENGLISH COMPOSITION II (**)	3
Foreign Language	1110-level***	5
*MATH: See the	catalog for the most up-to-date prerequisites.	
**ENGL 1160: R	equires ENGL 1150, or EPPE or AP placement.	
***Foreign Lang and global dive	uage 1110 is a humanity/fine arts course rsity	
	Credits	15-16
Spring		
GEOL 1180	INTRODUCTION TO HISTORICAL	4

	Credits	15-16
Spring		
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (*)	4
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (**)	5
Foreign Language	1120-level	5
*GEOL 1180: Re before enrolling	quires GEOL 1170 (Consult your advisor for this course)	
	See the catalog for the most up-to-date HEM 1144 must be taken concurrently.	
	0 114	4.4

	Credits	14
Sophomore		
E. 0		

Fall		
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY (*)	4
Social Science/US Dive	ersity	3
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
Foreign Language 211	0-level	3
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (**)	3
*GEOL 2750: Requi	res GEOL 1170. GEOL 2754 must be taken	

Credits	16
GEOG 1030 or permission of instructor.	
**GEOL 2300: Requires GEOL 1010 or GEOL 1170 or	
concurrently.	
GEOL 2730. Requires GEOL 1170. GEOL 2734 must be taken	

	Credits	16
Spring		
Approved GEOL El	ective	4
Foreign Language	2110-level	3
PHYS 1110	GENERAL PHYSICS I	5

and GENERAL PHYSICS LABORATORY I

\*PHYS 1110: Requires MATH 1220 (or MATH 1300 or higher), or Math ACT sub-score of 23, or appropriate Math Placement Exam score.

	Credits	12
Junior		
Fall		
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (*)	3
Approved GEOL El	ective**	3
PHYS 1120 & PHYS 1164 or GEOL 4400	GENERAL PHYSICS II ( with lab***) or GEOPHYSICS	3-5
Humanities and Fi	ne Arts	3
Social Science		3
*GEOL 3400: Re	equires GEOL 2750 and 2754	
**120 total cred	dits 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 1120: Requires PHYS 1110		
	Credits	15-17
Spring		
GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (*)	4
GEOL/GEOG 4260 or GEOL 4640 or GEOG 4640 or GEOL 4330 or GEOG 4330	PROCESS GEOMORPHOLOGY (**) or CRITICAL ZONE SCIENCE or CRITICAL ZONE SCIENCE or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
GEOL elective***		2-3
Social Science <sup>^</sup>		3
HIST 1010 or Minor/	2nd Major course#	3
*GEOL 3300: Req	uires GEOL 2750+2754	
**GEOL 4260: Red	quires 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 GEOL 1010 or GEOL 1170

\*\*\*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

^ Social Science must be in a 2nd discipline.

**Credits** 

#CAS College Requirement Option.

	Credits	16-17
Summer		
GEOL 4620	ADVANCED FIELD COURSE (*,**)	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		

(\*)

& PHYS 1154

#### Senior

#### Fall

Humanities and Fine Arts*	3
Additional Humanity/Fine Arts for A&S or Minor/2nd Major course**	3
Statistics course	3
HIST 1000 or Minor/2nd Major Course***	3
Additional Social Science for A&S or Minor/2nd Major course^	3
*Humanities/Fine Arts must be in a 2nd discipline.	
**A&S College Requirement Option. Additional HFA must be from a 3rd discipline.	
***A&S College Requirement Option.	
^A&S College Requirement Option. Additional SS must come	

from 3rd discipline.
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.

	Credits	15
Spring		
GEOL 4260	PROCESS GEOMORPHOLOGY (*)	4
GEOL 4800 or GEOL 4950	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE  (**) or SENIOR THESIS	3
ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES (OR Upper Level Elective***)	3
Approved GEOL ele	ctive	3
*GEOL 4260: Red GEOL 2760; GEO	quires GEOL 1170; GEOL 1180; GEOL 2750; PL 3300	
	quires Senior status, major or area of geography or environmental science AND	
**GEOL 4950: Re	quires Senior status.	
***ENGL 3980: R	equires ENGL 1160 with grade of C- or	

Note: If students take GEOL 4950, the Writing in the Discipline requirement will be fulfilled. If students select GEOL 4800, they must take a separate WID course, such as ENGL 3980. ENGL 3980 or other approved WID courses require ENGL 1160.

better or appropriate placement via EPPE or AP.

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.

Credits	13
Total Credits	122-126

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

\*\*Transfer credit or placement exam scores may change suggested plan of study