

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	Title	Credits
GENERAL EDUCATION REQUIREMENTS - 34 Hours Required		
Minimum of "C-" required		
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communication – 3 hrs.		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
Quantitative Literacy – 3 hrs.		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3 hrs.		
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.		
Breadth of Knowledge		13
Social Science – 3 hrs.		
Humanities – 3 hrs.		
Natural & Physical Science (must complete a lab) – 4 hrs.		
Arts – 3 hrs.		
Individual and Social Responsibility		6
Cultural Knowledge – 3 hrs.		
Civic Knowledge and Engagement – 3 hrs.		
MAJOR REQUIREMENTS		
**Course will satisfy UNO's General Education requirement		
^Course requires pre-requisite(s)		
Geology Major, General Geology - 63-65 Hours Required		
Required Coursework		28
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (^)	
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (^)	
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY (^)	

GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (^)	
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (^)	
GEOL 4620	ADVANCED FIELD COURSE (^)	
Select one of the following		4
GEOL/GEOG 4260	PROCESS GEOMORPHOLOGY (^)	
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE (^)	
GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)	
Select one of the following		3
GEOL 4800	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (^)	
GEOL 4950	SENIOR THESIS (^)	
Additional Geology or Geography courses in consultation with advisor		12
An approved Statistics course		3
Other required coursework		10
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
PHYS 1110 & PHYS 1154	PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)	
Select one of the following options		3-5
PHYS 1120 & PHYS 1164	PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II	
OR		
GEOL 4400	GEOPHYSICS (^)	
College Breadth (choose one option)		15-30+
Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours		
Option 2: Additional General Education Requirements - 18+ hours		
Additional quantitative literacy -3 hours		
Additional Social Science Gen. Ed. from another Discipline - 3 hours		
Additional Humanities Gen. Ed. from another Discipline - 3 hours		
HIST 1000 and HIST 1010 - 6 hours		
Additional Nat. and Physical Science w/ or without Lab - 3-5 hours		
Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)		
Bachelor of Arts Language Requirement		16
FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120		
ELECTIVES		
Elective hours as required to reach a total of 120 hours		

Geology, Bachelor of Arts - Geology Career Track Requirements

Geology, Bachelor of Arts - Geology Career Track Requirements

Code	Title	Credits
GENERAL EDUCATION REQUIREMENTS - 34 Hours Required		
Minimum of "C-" required		
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communication – 3 hrs.		
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS ARGUMENTATION AND DEBATE	
Quantitative Literacy – 3 hrs.		
MATH 1120 or MATH 1130 or MATH 1140 or MATH 1300	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING QUANTITATIVE LITERACY QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3 hrs.		
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.		
Breadth of Knowledge		13
Social Science – 3 hrs.		
Humanities – 3 hrs.		
Natural & Physical Science (must complete a lab) – 4 hrs.		
Arts – 3 hrs.		
Individual and Social Responsibility		6
Cultural Knowledge – 3 hrs		
Civic Knowledge and Engagement – 3 hrs.		
MAJOR REQUIREMENTS		
**Course will satisfy UNO's General Education requirement		
^Course requires pre-requisite(s)		
Geology Major, Geology Career - 65-74 Hours Required		
Required Coursework		28
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY (^)	
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (^)	
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY (^)	
GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (^)	
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY (^)	
GEOL 4620	ADVANCED FIELD COURSE (^)	
Select one of the following		4
GEOL/GEOG 4260	PROCESS GEOMORPHOLOGY (^)	
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE (^)	

GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)	
Select one of the following		3
GEOL 4800	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (^)	
GEOL 4950	SENIOR THESIS (^)	
Additional Geology or Geography courses in consultation with advisor - 12 Hours Required		12
Required Chemistry Lecture and Lab:		4
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)	
Additionally, select one of the following Chemistry options		3-4
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)	
OR		
GEOL/CHEM 4540	GEOCHEMISTRY (^)	
Select one of the following Mathematics options		3-9
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II	
OR		
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)	
Required Physics Lecture and Lab		5
PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**)	
Additionally, select one of the following Physics options		3-5
PHYS 2120 & PHYS 1164	GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)	
OR		
GEOL/PHYS 4400	GEOFYSICS	
College Breadth (choose one option)		15-30+
Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours		
Option 2: Additional General Education Requirements - 18+ hours		
Additional quantitative literacy - 3 hours		
Additional Social Science Gen. Ed. from another Discipline - 3 hours		
Additional Humanities Gen. Ed. from another Discipline - 3 hours		
HIST 1000 and HIST 1010 - 6 hours		
Additional Nat. and Physical Science w/ or without Lab - 3-5 hours		
Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)		
Bachelor of Arts Language Requirement		16
FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120		
ELECTIVES		
Elective hours as required to reach a total of 120 hours		

Geology, Bachelor of Arts - General Track Four Year Plan

Geology, Bachelor of Arts - General Track Four Year Plan

Freshman

		Credits
Fall		
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1300 or MATH 1320	COLLEGE ALGEBRA WITH SUPPORT or COLLEGE ALGEBRA	3-4
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
World Language 1110		5
Attend Durango Days; other campus events.		
Set up a Handshake account and take the Pathway U career assessment.		
Attend the Student Involvement & Volunteer Fair to explore student organizations.		
Make advising appointment for spring: Sept-Oct.		
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
World Language 1120		5
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
Attend campus events such as major exploration week to get an idea of interests and career paths.		
Schedule a resume review with UNO Career Services.		
Visit faculty office hours and ask about undergraduate research opportunities.		
Make advising appointment for summer and fall: February – March.		
Credits		17

Sophomore

Fall		
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY	4
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING	3
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
World Language 2110		3
General Education Course or Elective		3
Attend a career fair for informational and networking purposes.		
Update your resume and LinkedIn profile with new experiences.		
Investigate and apply for summer internships, research, or study abroad programs.		
Make advising appointment for summer and fall: February – March.		
Credits		16

Spring

PHYS 1110 & PHYS 1154	PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I	5
Approved GEOL Elective		3
World Language 2120		3
General Education Course or Elective		4
Attend a career fair for informational and networking purposes.		

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

Credits 15

Junior

Fall		
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY	3
PHYS 1120 & PHYS 1164	PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (*)	5
General Education Course or Elective		3
General Education Course or Elective		3
*Students may take GEOL 4400 Geophysics or PHYS 1120-1164		
Apply for a paid internship or research assistantship.		
Attend a mock interview workshop or use online interview tools with Career Services.		
Start researching and visiting graduate programs or professional schools.		
Visit Career Center, continue updating resume.		
Make advising appointment for spring: Sept-Oct.		
Credits		14

Spring

GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS	4
GEOL 4260 or GEOL 4640 or GEOL 4330	PROCESS GEOMORPHOLOGY (or an approved GEOL elective) or CRITICAL ZONE SCIENCE or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
Any approved statistics course		3
General Education Course or Elective		3
Request letters of recommendation from faculty for jobs or grad school.		
Attend the All-Majors Career Fair with a plan to network.		
Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.		
Make advising appointment for summer and fall: February – March.		
Credits		14

Summer

GEOL 4620	ADVANCED FIELD COURSE	6
Credits		6

Senior

Fall		
Approved GEOL Elective		3
General Education Course or Elective		3
General Education Course or Elective		3
General Education Course or Elective		3
Check in with Career Center for networking tips.		
Finalize graduate school applications or job search strategy.		
Attend a career fair and start applying for full-time jobs.		
Prepare for interviews and salary negotiations with Career Services.		

Make advising appointment for spring: Sept. - Oct.		
	Credits	12
Spring		
GEOL 4260 or GEOL 4330 or GEOL 4640	PROCESS GEOMORPHOLOGY (or an approved GEOL elective) or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or CRITICAL ZONE SCIENCE	4
GEOL 4950 or GEOG 4800	SENIOR THESIS or INTERNSHIP IN ENVIRONMENTAL REGIONAL PLANNING EARTH SCIENCE	3
General Education Course or Elective		3
Elective		1-2
Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile.		
Stay connected by joining alumni networks and professional organizations.		
Apply for graduation via MavLink.		
	Credits	11-12
	Total Credits	120-122

Geology, Bachelor of Arts - Career Track Four Year Plan

Freshman

	Credits	
Fall		
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1300 or MATH 1320	COLLEGE ALGEBRA WITH SUPPORT or COLLEGE ALGEBRA	3-4
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
General Education Course or Elective		3
Attend Durango Days; other campus events.		
Set up a Handshake account and take the Pathway U career assessment.		
Attend the Student Involvement & Volunteer Fair to explore student organizations.		
Make advising appointment for spring: Sept-Oct.		
Work with your advisor to develop your Pathway in Stellic.		

	Credits	13-14
Spring		
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY	4
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4
MATH 1330	TRIGONOMETRY	3
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
Attend campus events such as major exploration week to get an idea of interests and career paths.		
Schedule a resume review with UNO Career Services.		
Visit faculty office hours and ask about undergraduate research opportunities.		
Make advising appointment for summer and fall: February – March.		
	Credits	14

Summer

MATH 1950	CALCULUS I	5
	Credits	5

Sophomore

Fall		
GEOL 2750 & GEOL 2754	MINERALOGY and MINERALOGY LABORATORY	4
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING	3
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	4
World Language 1110		5
Attend the Career & Internship Fair to start networking with employers.		
Look for volunteer, research, or part-time work to gain experience.		
Join a student organization or club related to your field or interests.		
Make advising appointment for spring: Sept. - Oct.		

	Credits	16
Spring		
GEOL 3300 & GEOL 3310	STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS	4
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	3-5
or		
GEOL 4540	GEOCHEMISTRY	5
World Language 1120		5
Elective		1
Attend a career fair for informational and networking purposes.		
Update your resume and LinkedIn profile with new experiences.		
Investigate and apply for summer internships, research, or study abroad programs.		
Make advising appointment for summer and fall: February – March.		

	Credits	13-15
Junior		
Fall		
PHYS 1154	GENERAL PHYSICS LABORATORY I	1
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY	3
MATH 1960	CALCULUS II	4
World Language 2110		3
Apply for a paid internship or research assistantship.		
Attend a mock interview workshop or use online interview tools with Career Services.		
Start researching and visiting graduate programs or professional schools.		
Visit Career Center, continue updating resume.		
Make advising appointment for spring: Sept-Oct.		

	Credits	14
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Spring

GEOL/GEOG 4640 or GEOL 4260 or GEOG 4260 or GEOL 4330 or GEOG 4330	CRITICAL ZONE SCIENCE (OR AN APPROVED GEOLOGY ELECTIVE) or PROCESS GEOMORPHOLOGY or PROCESS GEOMORPHOLOGY or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
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PHYS 2120 & PHYS 1164	GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II	3-5
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or GEOL/PHYS 4400	GЕOPHYSICS	
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World Language 2120		3
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General Education Course or Elective		3
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Request letters of recommendation from faculty for jobs or grad school.

Attend the All-Majors Career Fair with a plan to network.

Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.

Make advising appointment for summer and fall: February – March.

Credits 13-15

Summer

GEOL 4620	ADVANCED FIELD COURSE	6
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Credits 6

Senior**Fall**

GEOL/GEOG 4330 or GEOL 4260 or GEOG 4260 or GEOL 4640 or GEOG 4640	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (OR AN APPROVED GEOLOGY ELECTIVE) or PROCESS GEOMORPHOLOGY or PROCESS GEOMORPHOLOGY or CRITICAL ZONE SCIENCE or CRITICAL ZONE SCIENCE	4
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Approved GEOL elective		3
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General Education Course or Elective		3
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General Education Course or Elective		3
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Check in with Career Center for networking tips.

Finalize graduate school applications or job search strategy.

Attend a career fair and start applying for full-time jobs.

Prepare for interviews and salary negotiations with Career Services.

Make advising appointment for spring: Sept. - Oct.

Credits 13

Spring

GEOL 4800 or GEOL 4950	INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE or SENIOR THESIS	3
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Approved GEOL Elective		3
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General Education Course or Elective		3
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General Education Course or Elective		3
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Complete your final advising check before graduation.

Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

Credits 12

Total Credits 119-124

College Breadth: Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

Upper Level Credits: Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

Additional Information About this Plan:

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, World 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

GPA Requirements: 2.0

Note: This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!