



Four-Year Degree Plan: Bachelor of Science in Applied Geology

Catalog Year: 2023-2024

**COLLEGE OF
LETTERS,
ARTS AND
SCIENCES**

This is a degree plan for completing a Bachelor of Science in Applied Geology in eight semesters. This document is meant to be used as a guide for planning purposes only and is intended for use in consultation with a Professional Academic or Faculty advisor. **Students are responsible for consulting advisors and the [MSU Denver catalog](#) for degree requirements.**

Year One					
Semester 1			Semester 2		
Fall		Credits	Spring		Credits
--	Written Communication I	3	--	Written Communication II	3
MTH 1110	College Algebra	4	MTH 1120	College Trigonometry	3
GEL 1010	Physical Geology	4	GEL 1030	Historical Geology	4
--	General Studies	3	--	General Studies	3
			--	General Studies	3
Semester 1 Total		14	Semester 2 Total		16

Year Two					
Semester 3			Semester 4		
Fall		Credits	Spring		Credits
CHE 1800	General Chemistry I	3	GES 1220	Intro to Geospatial Sciences	3
CHE 1801	General Chemistry I Lab	1	GES 3120	Geomorphology	4
PHY 2010	College Physics I	4	--	General Studies	3
--	General Studies	3	--	General Studies	3
--	General Studies	3	--	Ethnic Studies & Social Justice	3
Semester 3 Total		14	Semester 4 Total		16

Semester		
Summer		Credits
GEL2530	Intro to Geological Fieldwork	2
Summer Semester Total		2

Year Three					
Semester 5			Semester 6		
Fall		Credits	Spring		Credits
GEL 3050	Intro to Mineralogy & Optical Min	4	--	GEL Elective	4
--	GEL Elective	4	--	Geology Internship	3
GIS 2250	Geographic Information Systems	4	--	CHE/PHY Elective	1
--	General Studies	3	--	CHE/PHY Elective	4
			--	Elective	3
Semester 5 Total		15	Semester 6 Total		15

Semester		
Summer		Credits
GEL 3530	Adv Geol of the Colorado Plateau	2
Summer Semester Total		2

Year Four					
Semester 7			Semester 8		
Fall		Credits	Spring		Credits
GEL 4970	UG Research in Geology	4	GEL 4460	Structural Geology & Mapping	4
GEL 4450	Sedimentary Geol & Stratigraphy	4	--	Elective	4
--	GEL Elective	3	--	Elective	4
--	Elective	3			
Semester 7 Total		14	Semester 8 Total		12

Program Total: 120

Students must complete all courses in the major with a grade of C- or higher. This degree is an extended major and does not require a minor.

Advisor Contact Information: Chivonne Torres, ctorre13@msudenver.edu, 303-605-5967 or visit [CLAS Academic Advising](#)

Detailed Course Listing

Core Requirements		
GEL 1010	Physical Geology	4
GEL 1030	Historical Geology	4
GEL 2530	Intro to Geological Fieldwork	2
GEL 3050	Intro to Minerology/Optical Mineral	4
GEL 3120	Geomorphology	4
GEL 3520	Adv Geol of the Colorado Plateau	2
GEL 4450	Sedimentary Geology/Stratigraphy	4
GEL 4460	Structural Geology and Mapping	4
Core Requirements Total		28

Specific Degree Requirements		
GIS 1220	Intro to Geospatial Sciences	3
GIS 2250	Geographical Information Systems	4
--	Applied Geology Electives	14
--	Chemistry/Physics Electives	5
GEL 4950	Internship in Geology	3
GEL 4970	Undergrad Research in Geology	4
Specific Degree Requirements Total		33

Program Totals

General Studies Requirements	33
Required Pre-Requirements	20
Specific Degree Requirements	33
Core Requirements	28
Electives	6
Total to Graduate	120



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