GEOLOGY (GEOLOGICAL SCIENCES) - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1250G Trigonometry & Pre-Calculus and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

Fi	rst	Υe	aı

01		0
Semester 1		Credits
Area I: Communication	1	4
ENGL 1110G	Composition I (Recommended)	
Area II: Mathematics	_	3-4
MATH 1250G	Trigonometry & Pre-Calculus (Recommended) 2	
GEOL 1110G or HNRS 2116G	Physical Geology or Earth, Time and Life	4
Area IV: Social and Be	havioral Science Course ¹	3
	Credits	14-15
Semester 2		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ²	4
MATH 1430G or MATH 1511G	Applications of Calculus I ² or Calculus and Analytic Geometry I	3-4
Area I: Communication	ns - Oral Communication Course	3
COMM 1115G	Introduction to Communication (Recommended)	
Area VI: Creative and	Fine Arts Course ¹	3
Elective Course ³		1
	Credits	14-15
Second Year		
Semester 1		
GEOL 1150	Introduction to Rocks and Minerals	3
GEOL 305V	Fossils and the Evolution of Life	3
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ²	4
MATH 1440 or MATH 1521G	Applications of Calculus II ² or Calculus and Analytic Geometry II	3-4
Area I: Communication	ns - Level 2 Course	3
ENGL 2210G	Professional and Technical Communication Honors (Recommended) ¹	
	Credits	16-17
Semester 2		
GEOL 312	Mineralogy and Optics (Spring Only) 2	3
GEOL 420	Stratigraphy and Sedimentology	3
Choose one from the		3-4
GEOG 381	Cartography and GIS (Recommended to meet the 3-4 credit non-departmental requirement)	
C S 151	C++ Programming	
C S 152	Java Programming	
C S 153	Python Programming I	
C S 158	R Programming I	
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GEOL 491 GEOL 449 Second Course in Seco Elective course ³	The Geological Profession ¹	1 4 2
GEOL 449 Second Course in Seco	The Geological Profession ¹	4
GEOL 449	The Geological Profession ¹	
		1
GEOL 491	restorne Evolution of North Afficiled	3
3L3L +30	Tectonic Evolution of North America ¹	3
GEOL 490	Field Geology ^{1,5}	3
Semester 2	orcano	15
i ii st course iii secollu	Credits	15
First Course in Second	Language Series	4
list) Elective Course		2
Geology Upper-Division	n Elective Course (refer to degree requirements	3
Geology Upper-Division Elective Course (refer to degree requirements list)		3
VWW: Viewing a Wider	World Course ⁴	3
Semester 1	Credits	4
GEOL 495	Geology Field Camp ⁵	4
Summer		
Fourth Year		
	Credits	15
Elective course		2
VWW: Viewing a Wider	World Course ⁴	3
list)	n Elective Course (refer to degree requirements	3
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab ²	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ²	
Choose one sequence	•	4
Semester 2 GEOL 399	Igneous and Metamorphic Petrology	3
	Credits	15
Elective course		2
Geology Upper-Division list)	n Elective Course (refer to degree requirements	3
& PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab ²	
& PHYS 1230L PHYS 1310G	and Algebra-Based Physics I Lab ²	
PHYS 1230G	Algebra-Based Physics I	7
Choose one sequence	,	4
GEOL 470	General Geochemistry	3
Semester 1 GEOL 470	Structural Geology ²	၁
Third Year		
Licetive dourse	Credits	14-15
Elective Course 3	ui se	2
MATH 2350G Area V: Humanities Cou		3
MATH 1350G	Introduction to Statistics Statistical Methods	
MATIL 1000	Introduction to Civil Engineering	
C E 151		

See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.

- These courses may have prerequisites and/or co-requisites, and it is the students responsibility for checking and fulfilling all those requirements.
- 3 Students whose Financial Aid requires enrollment in at least 15 credits each semester, may need to take additional elective credit than what is listed. Students should discuss their electives with their advisor.

 *Elective credit may vary based on Math course selection, second language requirements, prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis.
- See the Viewing a Wider World (https://catalogs.nmsu.edu/ nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section of the catalog for a full list of courses.
- GEOL 495 Geology Field Camp, is only taught in the summer of odd-numbered years. Students should take GEOL 490 Field Geology, during the spring semester before taking GEOL 495.
 GEOL 495 Geology Field Camp should be taken the summer after the third or fourth year. In cases where it is impossible to fit this class into a schedule, students may take a field camp at another university and transfer the credits. It is the student's responsibility to have the department head verify that the field camp is acceptable before taking the course.