

# GEOLOGY (EARTH SCIENCE EDUCATION) - BACHELOR OF SCIENCE

## A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra 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.

### First Year

Semester 1		Credits
English Composition - Level 1 Course <sup>1</sup>		4
GEOL 1110G	Physical Geology	4
CEPY 1120G	Human Growth and Behavior	3
MATH 1220G	College Algebra	3
Elective Course <sup>2</sup>		1
<b>Credits</b>		<b>15</b>

### Semester 2

Oral Communication Course <sup>1</sup>		3
CEPY 2110	Learning in the Classroom	3
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
Area V: Humanities Course <sup>1</sup>		3
Area VI: Creative and Fine Arts course <sup>1</sup>		3
<b>Credits</b>		<b>16</b>

### Second Year

#### Semester 1

GEOL 1150	Introduction to Rocks and Minerals	3
GEOL 305V	Fossils and the Evolution of Life	3
CHEM 1215G or CHEM 1216	General Chemistry I Lecture and Laboratory for STEM Majors or General Chemistry I Lecture and Laboratory for CHEM Majors	4
EDUC 3120	Multicultural Education	3
Second Language first course in sequence <sup>3</sup>		4
<b>Credits</b>		<b>17</b>

#### Semester 2

GEOL 420	Stratigraphy and Sedimentology	3
Geology Departmental Elective Course <sup>4</sup>		3
CHEM 1225G or CHEM 1226	General Chemistry II Lecture and Laboratory for STEM Majors or General Chemistry II Lecture and Laboratory for CHEM Majors	4
SPED 3105	Introduction to Special Education in a Diverse Society	3
Second Language second course in sequence <sup>3</sup>		4
<b>Credits</b>		<b>17</b>

### Third Year

#### Semester 1

Geology Departmental Elective Course <sup>4</sup>		3
---	--	---

PHYS 1230G or PHYS 2230G	Algebra-Based Physics I or General Physics for Life Science I	3
PHYS 1230L or PHYS 2230L	Algebra-Based Physics I Lab or Laboratory to General Physics for Life Science I	1
Viewing a Wider World course <sup>5</sup>		3
EDUC 3997	Secondary Field Experience	3
Student who need to enroll in 15 credits for Financial Aid purposes will need to take additional elective credits		
<b>Credits</b>		<b>13</b>

### Semester 2

Geology Departmental Elective <sup>4</sup>		3
PHYS 1240G or PHYS 2240G	Algebra-Based Physics II or General Physics for Life Science II	3
PHYS 1240L or PHYS 2240L	Algebra-Based Physics II Lab or Laboratory to General Physics for Life Science II	1
BIOL 313 or BIOL 322	Structure and Function of Plants or Zoology	3
READ 4330	Content Area Literacy	3
Viewing a Wider World Course <sup>5</sup>		3
<b>Credits</b>		<b>16</b>

### Fourth Year

#### Semester 1

Geology Departmental Elective Course <sup>4</sup>		3
GEOL 449	The Geological Profession	1
ENGL 2210G or ENGL 2210H	Professional and Technical Communication Honors or Professional and Technical Communication Honors	3
ASTR 1120G	The Planets Lecture & Laboratory	4
EDUC 4410	Teaching Science at the Middle and High School Level	3
Student who need to enroll in 15 credits for Financial Aid purposes will need to take additional elective credits		
<b>Credits</b>		<b>14</b>

#### Semester 2

EDUC 4820	Secondary Student Teaching	9
EDUC 4821	Middle and High School Student Teaching Seminar	3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

<sup>2</sup> Elective credit may vary depending on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The elective credit in the requirement list is the amount needed to bring the total to 120 credits and may vary based on the degree. Students may need to complete more or less courses on a case-by-case basis and each student should discuss this with their advisor.

<sup>3</sup> See the Second Language section of the Requirements Tab (<https://catalogs.nmsu.edu/nmsu/arts-sciences/geological-sciences/geology-earth-environmental-sciences-bachelor-science/#requirementstext>) for this degree for more information.

<sup>4</sup> **Departmental Electives:**

- GEOL 312 Mineralogy and Optics
- GEOL 335V Earthquakes, Volcanoes, Hurricanes, and Floods: The Role of Natural Hazards in Civ Past and Present

2 Geology (Earth Science Education) - Bachelor of Science

- GEOL 360 General Geochemistry
- GEOL 399 Igneous and Metamorphic Petrology
- GEOL 444 GIS for Geology
- GEOL 470 Structural Geology
- GEOL 491 Tectonic Evolution of North America

<sup>5</sup> 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.