# Requirements for Geology Sub-plan: 2021-22 Catalog Year (SPRING 2022 only)

## SECOND LANGUAGE REQUIREMENT

(Requirement can be met with proficiency exam):

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>4</th>
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<tbody>
<tr>
<td>Semester 2</td>
<td>(completion with a grade of C or higher)</td>
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## GENERAL EDUCATION (BEGINNING SPR22):

UNIV 101 Intro to General Education | 1 |

### 4 Exploring Perspectives

- Exploring Perspectives: Artist | 3 |
- Exploring Perspectives: Humanist | 3 |
- Exploring Perspectives: Natural Scientist | 3 |
- Exploring Perspectives: Social Scientist | 3 |

### 3 Building Connections (9-units Total)

| 3 |
| 3 |
| 3 |

UNIV 301 Capstone General Education | 1 |

## ENGLISH (6 units):

- ENGL 101 English Composition | 3 |
- ENGL 102 English Composition (grade of B or higher to meet MCWA) | 3 |

*or*

- ENGL 109H English Composition | 3 |

*or*

- ENGL 106 English Composition for ESL Students | 3 |
- ENGL 107 English Composition for ESL Students | 3 |
- ENGL 108 English Composition for ESL Students (grade of B or higher to meet MCWA) | 3 |

## MATHEMATICS (9 units):

- MATH 122A&B or MATH 125 Calculus I (P: MATH 120R, or MATH 112 plus MATH 111, with a grade of C or higher, or appropriate math placement) | 3-5 |
- MATH 129 Calculus II (P: MATH 122B or MATH 125 with grade of C or higher) | 3 |

Choose one of the following:

- MATH 163 Basic Statistics (P: MATH 112) | 3 |
- MATH 223 Vector Calculus (P: MATH 129) | 4 |
- MATH 263 Statistics and Biostatistics (P: MATH 112) | 3 |
- MATH 313 Intro to Linear Algebra (P: MATH 129) | 3 |

## CHEMISTRY (8 units):

- CHEM 151 General Chemistry I (P: MATH 112 or appropriate math placement) | 4 |
- CHEM 152 General Chemistry II (P: CHEM 151) | 4 |

*or*

- CHEM 141 Introductory Chemistry I (P: MATH 112 or appropriate math placement) | 3 |
- CHEM 143 Introductory Laboratory I (CR: CHEM 141) | 1 |
- CHEM 142 Introductory Chemistry II (P: CHEM 141) | 3 |
- CHEM 144 Introductory Laboratory II (P: CHEM 143; CR: CHEM 142) | 1 |

## PHYSICS (7-8 units):

| PHYS 102 | Introductory Physics I (P: MATH 112 or appropriate math placement) | 3 |
| PHYS 181 | Introductory Laboratory I (CR: PHYS 102) | 1 |
| PHYS 103 | Introductory Physics II (P: PHYS 102) | 3 |
| PHYS 182 | Introductory Laboratory II (P: PHYS 181; CR: PHYS 103) | 1 |

*or*

- PHYS 141 Introductory Mechanics (P: MATH 122B or MATH 125; CR: MATH 129) | 4 |
- PHYS 142 Introductory Optics and Thermodynamics (P: PHYS 141 and MATH 129 or appropriate math placement) | 3 |

## GEOS COMMON CORE (Complete 4 courses):

| GEOS 251 | Physical Geology (Fall and Spring) | 4 |

Choose one class from:

- Computer Application | 3 |

*or*

- GEOS 280 MatLab (Fall) |
- GEOS 285 Python (Spring) |

**or**

- GEOS 300 Earth Surface Processes (P: GEOS 251) (Spring) | 3 |
- GEOS 302 Principles Stratigraphy and Sedimentation (P: GEOS 251, CHEM 151 or CHEM 141 and CHEM 143, PHYS 102 or 141) (Fall) (Writing Proficiency course; MCWA alternative) | 4 |

## GEOLGY CORE (Complete 6 courses):

| GEOS 304 | Structural Geology (P: GEOS 251, PHYS 102 or 141) (Spring) | 4 |
| GEOS 306 | Mineralogy (P: GEOS 251, CHEM 151) (Fall) | 3 |
| GEOS 308 | Paleontology (P: GEOS 251) (Spring) | 3 |
| GEOS 322 | Intro to Geophysics (P: GEOS 251; M: PHYS 122B or 125) (Fall) | 3 |
| GEOS 356 | Petrology (P: GEOS 306, MATH 122B, PHYS 102 or 141) (Spring) | 4 |

## GEOLOGY CAPSTONE – FIELD EXPERIENCE (6 units):

| GEOS 414 or GEOS 405 | Geology Field Camp (P: GEOS 251, 302, 304, 306, 356) | 6 |

*or*

- Accessible Earth (P: GEOS 251, GEOS 302 recommended) (both available in Summer Session) |

## GEOLOGY ADVISOR APPROVED EMPHASIS COURSES (13 units)

Majority of courses should consist of GEOS 300 or 400 level

Full list of approved classes on advisement report

No more than 3 units of Preceptor (GEOS 397A)

Up to 6-units of a combination of Internship, Preceptorship (3-unit max), and/or Research allowed; No double-dipping Emphasis credits with Capstone or other GEOS BS requirements.

*UA BS degrees require a minimum of 120 units for graduation. This sub-plan totals a minimum of 103 units. Additional units or “Free Electives” may be required to meet the BS minimum requirement of 120 units.

**Geology Advisor Approved Emphasis Courses**


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