 Requirements for Geology Sub-plan: 2022-23 Catalog Year

SECOND LANGUAGE REQUIREMENT
(Requirement can be met with proficiency exam):
Semester 1 4
Semester 2 (completion with a grade of C or higher) 4

GENERAL EDUCATION
GE: Introduction Course
UNIV 101 Introduction to General Ed (Waived for new transfer students) 1

GE: Exploring Perspectives (12 units):
Art 3
Humanist 3
Natural Scientist Can be fulfilled with Chem 151 or GEOS 251 3
Social Scientist 3

GE: Building Connections (9 units):

GE: Capstone (3 units):
UNIV 301 General Ed Capstone (Waived for new transfer students) 3

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
or ENGL 107 English Composition for ESL Students 3
or 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

COMMON CORE (Complete 5 courses):
GEOS 251 Physical Geology (Fall and Spring) 4

Computer Ap:
GEOS 280 or GEOS 285
MatLab (P: GEOS 251) (Fall)
or Accessible Earth (P: GEOS 251) (Spring)

GEOS 300 Earth Surface Processes (P: GEOS 251, Calculus I proficiency recommended) (Spring) 3

GEOS 302 Principles Stratigraphy and Sedimentation (P: GEOS 251, CHEM 151, PHYS 102 or 141) (Fall) (Writing Proficiency course; MCWA alternative) 4

Capstone Experience:
Field Camp (in-person) GEOS 414 Geology Field Camp (P: GEOS 251, 302, 304, 306, 356) or
or GEOS 405 Accessible Earth (P: GEOS 251, GEOS 302 recommended) (both available in Summer Session)
or Advisor-approved, in-person, equivalent transfer Field Camp(s)

GEOLGY CORE (Complete all 5 courses):
GEOS 304 Structural Geology (P: GEOS 251, PHYS 102 or PHYS 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; P: MATH 122B or 125) (Fall) 3
GEOS 356 Petrology (P: GEOS 306, MATH 122B, PHYS 102 or 141) (Spring) 4

GEOLGY ADVISOR APPROVED EMPHASIS COURSES (15 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 100 units. Additional units or "Free Electives" may be required to meet the 85 minimum requirement of 120 units.

Geology Advisor Approved Emphasis Courses

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