

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

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 (BEGINNING SPR22):

UNIV 101	Intro to General Education	1
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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
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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
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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
Computer Application	Choose one class from: GEOS 280 MatLab (Fall) or GEOS 285 Python (Spring)	3
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

GEOLOGY 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; P: MATH 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) or Accessible Earth (P: GEOS 251, GEOS 302 recommended) (both available in Summer Session)	6
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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

ANTH 304, ANTH 335, ANTH 435, ANTH 439A, ASTR 403, ASTR 442, ATMO 412A, CHEM 325, CHEM 326, CHEM 480A, CHEM 480B, ECOL 335, ECOL 360, ECOL 406L, ECOL 406R, ECOL 412A, ECOL 412B, ENVS 412A, GEN 402, GEN 416, GEN 427, GEN 448, GEOG 430, GEOG 438, GEOG 439A, GEOS 195D, GEOS 240, GEOS 255, GEOS 260, GEOS 270, GEOS 342, GEOS 400, GEOS 403, GEOS 411, GEOS 412A, GEOS 412B, GEOS 415, GEOS 416, GEOS 417, GEOS 419, GEOS 423, GEOS 424A, GEOS 425, GEOS 427, GEOS 430, GEOS 432, GEOS 434A, GEOS 439A, GEOS 440, GEOS 442, GEOS 446, GEOS 448, GEOS 450, GEOS 453, GEOS 456, GEOS 460, GEOS 462, GEOS 466, GEOS 469, GEOS 470L, GEOS 470R, GEOS 477, GEOS 478, GEOS 482, GEOS 489, HWRS 350, HWRS 411, HWRS 431, HWRS 480, MATH 313, MATH 322, MNE 402, MNE 427, MSE 412, PHYS 403, PTYS 403, PTYS 411, PTYS 442, WSM 439A, Approved Transfer Course

Rev: 02/11/2022 – sm