

Requirements for Earth, Oceans and Climate 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
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GE: Exploring Perspectives (12 units):

Artist		3
Humanist		3
Natural Scientist	Can be fulfilled with Chem 151 or GEOS 251	3
Social Scientist		3

GE: Building Connections (9 units):

		3
		3
		3

GE: Capstone (3 units):

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

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)	3
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 &/or Research or Thesis &/or Internship	 GEOS 414 Geology Field Camp (P: GEOS 251, 302, 304, 306, 356) or GEOS 405 Accessible Earth (P: GEOS 251, GEOS 302 recommended) (both available in Summer Session) &/or GEOS 492 Directed Research, GEOS 499 or 499H Independent Study, GEOS 498 Sr. Capstone Thesis, GEOS 498H Honor's Thesis &/or GEOS 393 (1-6-unit exp.) or GEOS 493 (3-un exp.)	6

EOC CORE (Complete all 5 courses):

GEOS 308	Paleontology (P: GEOS 251) (Spring)	3
GEOS 342	The History of Earth's Climate (Fall)	3
GEOS 412A	Ocean Sciences (P: One year of science) (Spring)	3
GEOS 478	Global Change (P: junior standing) (Fall)	3
GEOS 479	Climate Dynamics (P: MATH 122B) (Spring)	3

EOC ADVISOR APPROVED EMPHASIS COURSES (17 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 97 units. Additional units may be required to meet the BS minimum requirement of 120 units.

Earth, Oceans and Climate Advisor Approved Emphasis Courses

ANTH 332, ANTH 439A, ASTR 403, ASTR 442, ATMO/ENVS/GEOG/HWRS/RNR 490, ECOL 360, ECOL 404F, ECOL 404R/L, ECOL 410, ECOL/GEOS 412B, ECOL 450, ENVS/GEN/GEOG/GEOS/GIST/WSM 330, ENVS 340, ENVS 410, ENVS 420, ENVS 422, ENVS 483, GEN 416, GEN 448, GEOG 304, GEOG/GEOS/RNR 416A, GEOG/GIST 420, GEOG 430, GEOG 439A, GEOG 447, GEOG 473, GEOG/GIST 483, GEOS 240, GEOS 255, GEOS 260, GEOS 270, GEOS 304, GEOS 306, GEOS 322, GEOS 340, GEOS 356, GEOS 400, GEOS 403, GEOS 408, GEOS 410, GEOS/HWRS/PTYS 411, GEOS 415, GEOS 416, GEOS/RNR 417, GEOS 418, GEOS 419, GEOS 422, GEOS 423, GEOS 424A, GEOS 430, GEOS 432, GEOS 434A, GEOS 439A, GEOS 440, GEOS 442, GEOS 447, GEOS 448, GEOS 450, GEOS 453, GEOS 462, GEOS 466, GEOS 469, GEOS 470R/L, GEOS 474A, GEOS 484, GEOS 489, HWRS 340, HWRS 350, HWRS 422, HWRS 431, MNE 418, PHYS 403, PLG 483, PLS 410, PTYS 403, PTYS 442, RNR 316, RNR 321, RNR 403, RNR 420, RNR 427, RNR 440, RNR 458, RNR 473, RNR 480, RNR 483, WSM 439A, Approved Transfer Course