

Geology, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to 2019/2020

*Official planning guide approved by the College of Science & Math

For assistance or to schedule an advising appointment, please contact the **CSM Advising and Resources Center** at 559-278-4150, Science I 136
Department of Earth & Environmental Sciences:
559-278-3086, Science II 114

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	16	14-15	15	14-18	15-17	15-16	16	15-17
Milestones		CHEM 1A	EES 12		EES 30 & MATH 75			
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	A2 (3 Units) Written Communication *Must pass with a C or better	A3 (3 Units) Critical Thinking *Must pass with a C or better		C1 (3-4 Units) Arts	C2 (3-4 Units) Humanities	D3 (3 Units) Social Science	IC (3-4 Units) Arts & Humanities
		B2 (3-4 Units) Life Sciences			C1/C2 (3-4 Units) Arts or Humanities	D1 (3 Units) American History	E1 (3 Units) Lifelong Understanding & Self Development	ID (3-4 Units) Social, Political, & Economic Institutions
						D2 (3 Units) American Government	IB (3 Units) Physical Universe & Its Life Forms	
Major	GE Area B1 CHEM 1A (3 Units) Physical Sciences [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL] *Not open to students with credit in CHEM 1B	CHEM 1B (3 Units) [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	EES 12 (3 Units) [Pre-Req: EES 1; CHEM 1A (may be taken concurrently)]	EES 30 (3 Units) [Pre-Req: EES 1, 2 (may be taken concurrently) OR instructor permission]	EES 104 (2 Units) [Pre-Req: EES 1 or 4; UDWS]	EES 107 (3 Units) [Pre-Req: EES 102, 104, 106]	EES 114, 117, 118, or 124 (3 Units) *See course catalog for prerequisite requirements	EES 105, 110, or 122 (3 Units) *See course catalog for prerequisite requirements
	GE Area B3 CHEM 1AL (2 Units) Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	CHEM 1BL (2 Units) [Pre-Req: CHEM 1B (may be taken concurrently)]	EES 100 (2 Units) [Pre-Req: EES 12 (concurrent enrollment recommended)]	EES 101 (4 Units) [Pre-Req: EES 100; EES 30 & CHEM 1B (may be taken concurrently)]	EES 106 (4 Units) [Pre-Req: EES 30, 101; MATH 75 (may be taken concurrently); PHYS 2A]	UD Geology Elective (3 Units) *Except EES 154, 155, and 168. No more than 1 unit of EES 160 may be used		EES 199 (3 Units) [Pre-Req: EES 102, 104, 106; Senior standing]

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Major	GE Area B4 MATH 75 (4 Units) Quantitative Reasoning *See course catalog for prerequisite requirements	EES 2 (3 Units) [Pre-Req: EES 1]	EES 178 (3 Units) [Pre-Req: EES 1 or 4; MATH 75 recommended]	EES 102 (3 Units) [Pre-Req: EES 30 (may be taken concurrently); EES 100]	EES 105, 110, or 122 (3 Units) *See course catalog for prerequisite requirements			
	EES 1 (4 Units) [Pre-Req: MATH 4R or second-year high school algebra recommended]		PHYS 2A (4 Units) [Pre-Req: DS 71, MATH 75, MATH 70, or department permission]	PHYS 2B (4 Units) [Pre-Req: PHYS 2A]				
Additional Graduation Requirements				UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			Elective	MI (3 Units) Multicultural/International

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FOOTNOTES:

Prerequisites/Corequisites: Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

Grade Requirements: CR/NC is not permitted in the Geology major with the exception of EES 3, 30, 160; CHEM 1A, 1AL, 1B, 1BL; MATH 75; PHYS 2A, 2B.

General Education: Units in this area may be used toward a double major or minor (see double major or departmental minor). Consult the appropriate department chair, program coordinator, or faculty adviser for further information. CHEM 1A, 1AL, 1B, 1BL; MATH 75; PHYS 2A, and 2B may satisfy GE, or a minor, as appropriate.

Electives (4 units): Units in this area may be used toward a double major or minor. Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

EES 3: No more than 1 unit will be permitted.

Upper Division Writing Skills requirement (UDWS): All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."

*Students planning to pursue graduate study in geology are strongly encouraged to take MATH 76 or EES 177.

Substitutions: If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.

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