

**NATURAL SCIENCES**  
**Earth Science Option, B.A. (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 Science & Mathematics Interdisciplinary Courses and Programs:**

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>15</b>	<b>15-16</b>	<b>16-17</b>	<b>17-18</b>	<b>15</b>	<b>13-17</b>	<b>16-18</b>	<b>15</b>
<b>Milestones</b>								
<b>General Education</b>	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better; ENGL 10 recommended	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better	<b>C2 (3-4 Units)</b> Humanities	<b>C1/C2 (3-4 Units)</b> Arts or Humanities	<b>D3 (3 Units)</b> Social Science	<b>E1 (3 Units)</b> Lifelong Understanding & Self Development	<b>IC (3-4 Units)</b> Arts & Humanities	
	<b>A3 (3 Units)</b> Critical Thinking *Must pass with a C or better	<b>C1 (3-4 Units)</b> Arts		<b>D1 (3 Units)</b> American History			<b>ID (3-4 Units)</b> Social, Political, & Economic Institutions	
				<b>D2 (3 Units)</b> American Government				
<b>Major</b>	<b>GE Area B1 CHEM 1A (3 Units)</b> Physical Sciences [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL] *Not open to students with credit in CHEM 1B	<b>GE Area B2 BIOL 1A (4 Units)</b> Life Sciences	<b>BIOL 1B (3 Units)</b> [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]	<b>BIOL 101 (4 Units)</b> [Pre-Req: BIOL 1A, 1B; PSYCH 42 or MATH 101; MATH 70 or equivalent recommended]	<b>EES 12 (3 Units)</b> [Pre-Req: EES 1; CHEM 1A (may be taken concurrently)]	<b>EES 30 (3 Units)</b> [Pre-Req: EES 1, 2 (may be taken concurrently) OR instructor permission]	<b>NSCI 106 (3 Units)</b>	<b>EES 112 (3 Units)</b> [Pre-Req: GE Foundation & Breadth Area B] *Credit not allowed after completion of EES 2

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<b>Major</b>	<b>GE Area B3</b> <b>CHEM 1AL</b> <b>(2 Units)</b> Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	<b>CHEM 1B</b> <b>(3 Units)</b> [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	<b>BIOL 1BL</b> <b>(1 Unit)</b> [Pre-Req: First-time enrollees must take BIOL 1B concurrently]	<b>PHYS 2A</b> <b>(4 Units)</b> [Pre-Req: DS 71, MATH 75, MATH 70, or department permission]	<b>EES 100</b> <b>(2 Units)</b> [Pre-Req: EES 12 (concurrent enrollment recommended)]	<b>EES 101</b> <b>(4 Units)</b> [Pre-Req: EES 30, 100; CHEM 1B (may be taken concurrently)]	<b>PSCI 21</b> <b>(4 Units)</b> [Pre-Req: Second-year high school algebra recommended]	<b>EES 102</b> <b>(3 Units)</b> [Pre-Req: EES 30, 100]
	<b>GE Area B4</b> <b>MATH 75</b> <b>(4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements	<b>CHEM 1BL</b> <b>(2 Units)</b> [Pre-Req: CHEM 1B (may be taken concurrently)]	<b>EES 1</b> <b>(4 Units)</b> [Pre-Req: MATH 4R or second-year high school algebra recommended]		<b>EES 155</b> <b>(3 Units)</b> [Pre-Req: EES 1, 112, or instructor permission]	<b>EES 110, 114, 117, 124; or GEOG 111</b> <b>(3 Units)</b> *See course catalog for prerequisite requirements	<b>EES 110, 114, 117, 124; or GEOG 111</b> <b>(3 Units)</b> *See course catalog for prerequisite requirements	<b>EES 105</b> <b>(3 Units)</b> [Pre-Req: EES 1; EES 30 (may be taken concurrently)]
				<b>EES 3</b> <b>(1 Unit)</b>		<b>PHYS 2B</b> <b>(4 Units)</b> [Pre-Req: PHYS 2A]		<b>GE Area IB</b> <b>EES 168</b> <b>(3 Units)</b> Physical Universe & Its Life Forms [Pre-Req: GE Foundation & Breadth Area B]
<b>Additional Graduation Requirements</b>			<b>MATH 101</b> <b>(4 Units)</b> [Pre-Req: MATH 70, 75, or 75A & B] *No credit if taken after MATH 108 OR <b>PSYCH 42</b> <b>(4 Units)</b>			<b>UDWS (0-4 Units)</b> *Upper Division Writing Exam OR "W" Course (must pass with a C or better)		<b>MI (3 Units)</b> Multicultural/International

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**FOOTNOTES:**

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

**Electives (2 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.

**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."

**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.