

# Bachelor of Science

## Ocean and Earth Science with a Major in Secondary Earth Science Education (6-12) (BS)

### Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>Fall</b>		
ENGL 110C	English Composition	3
BIOL 121N and BIOL 122N		4
Human Creativity		3
Philosophy and Ethics		3
STEM 101	Step 1 – Inquiry Approaches to Teaching STEM	1
<b>Credit Hours</b>		<b>14</b>
<b>Spring</b>		
MATH 211 or MATH 205	Calculus I or Calculus for Life Sciences	4
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research or Writing, Rhetoric, and Research: Special Topics	3
OEAS 130G	Research Skills and Information Literacy for the Natural Sciences (Meets Information Literacy and Research)	3
Literature		3
STEM 102	Step 2 - Inquiry Based STEM Lesson Design	1
<b>Credit Hours</b>		<b>14</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 121N and CHEM 122N		4
PHYS 111N	Introductory General Physics	4
OEAS 111N	Physical Geology	4
STEM 201	Knowing and Learning in STEM Education	3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 123N and CHEM 124N		4
PHYS 112N	Introductory General Physics	4
OEAS 112N	Historical Geology	4

STEM 202	Classroom Interactions in STEM Education	3
<b>Credit Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
STAT 310	Introductory Data Analysis	3
OEAS 220T	Introduction to Meteorology (Meets Impact of Technology)	3
OEAS 320	Sedimentology and Stratigraphy	4
OEAS 315	Minerals and Rocks	4
OEAS 306	Oceanography	3
<b>Credit Hours</b>		<b>17</b>
<b>Spring</b>		
OEAS 303	Paleontology	3
OEAS 310	Global Earth Systems	4
Interpreting the Past		3
OEAS 344W	Geomorphology	3
OEAS 444 (satisfies oral communication)		3
Elective (OEAS 300/400 recommended)		2
<b>Credit Hours</b>		<b>18</b>
<b>Senior</b>		
<b>Fall</b>		
PHYS 408	Astronomy for Teachers	3
STEM 401	Project Based Instruction in STEM Education	3
OEAS 468W	Research Methods in Math and Sciences	3
Human Behavior		3
Elective		3
<b>Credit Hours</b>		<b>15</b>
<b>Spring</b>		
STEM 402	Perspectives on STEM	3
STEM 485	Apprentice Teaching	9
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>120</b>

Language and Culture I & II may be met in high school and are not included in this four-year plan. Please see requirement details.