

## Earth Science Education, B.S.

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### Requirements

Earth Science is the study of the Earth, including its water and atmosphere, and their relationship to humans and other living things. Earth Science applies chemistry, physics, mathematics and biology to scientific problems of the Earth. The Earth Science Education program prepares students to receive a Utah State teaching credential with an endorsement in Earth Science. Through careful choice of courses, students may also earn endorsements in the other physical sciences.

### Total Program Credits: 121

<b>Matriculation Requirements:</b>		
<ol style="list-style-type: none"> <li>Complete the following courses: GEO 1010 Introduction to Geology PP, GEO 1015 Introduction to Geology Lab, MATH 1050 College Algebra QL (or MATH 1055 College Algebra with Preliminaries QL), MATH 1060 Trigonometry QL, BIOL 1010 General Biology BB with a grade of "C" or higher in each.</li> <li>Complete a minimum of 30 semester hours of college credit.</li> <li>Apply to the department of Earth Science for admission.</li> </ol>		
<b>Secondary Education Requirements:</b>		
<ol style="list-style-type: none"> <li>ENGL and MATH QL courses must have a grade C or higher</li> <li>GPA of 3.0 or higher with no grade lower than a C in content area courses.</li> <li>Completion of all General Education requirements and 70% of content area courses.</li> <li>Pass LiveScan Criminal Background Check.</li> </ol>		
<b>General Education Requirements:</b>		30 Credits
	ENGL 1010 Introduction to Academic Writing CC	3
or	ENGL 1005 Literacies and Composition Across Contexts CC (5)	
	ENGL 2010 Intermediate Academic Writing CC	3
	MATH 1050 College Algebra QL	4
or	MATH 1055 College Algebra with Preliminaries QL (5)	
Complete one of the following:		3
	HIST 2700 US History to 1877 AS (3)	
and	HIST 2710 US History since 1877 AS (3)	
	HIST 1700 American Civilization AS (3)	
	HIST 1740 US Economic History AS (3)	
	POLS 1000 American Heritage SS (3)	
	POLS 1100 American National Government AS (3)	
Complete the following:		
	PHIL 2050 Ethics and Values IH	3
	HLTH 1100 Personal Health and Wellness TE (2)	
or	EXSC 1097 Fitness for Life TE	2
<b>Distribution Courses</b>		
	BIOL 1010 General Biology BB	3
	Physical Science <sup>1</sup>	
	Additional Biology or Physical Science <sup>1</sup>	
	Humanities Distribution	3

	Fine Arts Distribution	3
	Social/Behavioral Science	3
<b>Discipline Core Requirements:</b>		91 Credits
	ASTR 1040 Elementary Astronomy PP	3
	GEOG 3700 Wetland Studies	3
or	BIOL 2500 Environmental Biology BB (3)	
	CHEM 1210 Principles of Chemistry I PP	4
	CHEM 1215 Principles of Chemistry I Laboratory	1
	CHEM 1220 Principles of Chemistry II PP	4
	CHEM 1225 Principles of Chemistry II Laboratory	1
	GEO 1010 Introduction to Geology PP	3
	GEO 1015 Introduction to Geology Laboratory	1
	GEO 1220 Historical Geology	3
	GEO 1225 Historical Geology Laboratory	1
	GEO 3700 Structure and Tectonics	4
	GEO 3080 Earth Materials WE	3
and	GEO 3085 Earth Materials Laboratory	1
	GEO 4500 Sedimentary Geology WE	4
	GEO 480R Earth Science Seminar (must be taken twice)	1
	METO 1010 Introduction to Meteorology PP	3
	METO 3100 Climate and the Earth System	3
	SCIE 4210 Science Teaching Methods I	3
	SCIE 4220 Teaching Methods in Science II	3
	PHYS 2010 College Physics I PP	4
	PHYS 2015 College Physics I Lab	1
	PHYS 2020 College Physics II PP	4
	PHYS 2025 College Physics II Lab	1
<b>Education Courses</b>		
	EDSC 1010 Introduction to Education	2
	EDSC 3000 Educational Psychology	3
	EDSC 325G Equitable Technology Integration GI	2
	EDSC 4200 Classroom Management I	2
	EDSC 4250 Classroom Management II	2
	EDSC 4440 Content Area Literacies	3
	EDSC 445G Multicultural Instruction ESL GI	3
	EDSC 455G Secondary Curriculum Instruction and Assessment GI	3
	EDSC 4850 Student Teaching--Secondary	8
	EDSC 4990 Teacher Performance Assessment Project WE	2
	EDSP 340G Exceptional Students GI	2

### Graduation Requirements:

- Completion of a minimum of 121 semester credits.
- Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses. (Departments may require a higher GPA.)

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3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Grade of C or higher in all GEO, BIOL, and METO courses.
6. Successful completion of at least one Global/Intercultural course.

Note: \*This requirement is fulfilled with the core requirements.

**Earth Science Education, B.S.****Graduation Plan**

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Semester 1	Course Title	Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Context CC	3
MATH 1050 or MATH 1055	College Algebra QL or College Algebra with Preliminaries QL	4
American Institutions		3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
GEO 1010	Introduction to Geology PP	3
GEO 1015	Introduction to Geology Laboratory	1
Semester total:		16
Semester 2	Course Title	Credit Hours
CHEM 1210 and CHEM 1215	Principles of Chemistry I PP and Principles of Chemistry Laboratory	5
ENGL 2010	Intermediate Academic Writing CC	3
GEO 1220 and GEO 1225	Historical Geology and Historical Geology Laboratory	4
EDSC 1010	Introduction to Education	2
Humanities Distribution		3
Semester total:		17
Semester 3	Course Title	Credit Hours
BIOL 1010	General Biology BB	3
PHYS 2010	College Physics I PP	4
PHYS 2015	College Physics I Lab	1
METO 1010	Introduction to Meteorology PP	3
GEO 480R	Earth Science Seminar	0.5
Fine Arts Distribution		3
Semester total:		14.5
Semester 4	Course Title	Credit Hours
CHEM 1220	Principles of Chemistry II PP	4
CHEM 1225	Principles of Chemistry II Laboratory	1
PHYS 2020	College Physics II PP	4
PHYS 2025	College Physics II Lab	1
GEOG 3700 or BIOL 2500	Wetland Studies or Environmental Biology BB	3
GEO 480R	Earth Science Seminar	0.5
Semester total:		13.5
Semester 5	Course Title	Credit Hours

GEO 3080 and GEO 3085	Earth Materials WE and Earth Materials Laboratory	4
ASTR 1040	Elementary Astronomy PP	3
PHIL 2050 or PHIL 205G	Ethics and Values IH GI	3
SCIE 4210	Science Teaching Methods I	3
Social/Behav Science Distribution		3
Semester total:		16
Semester 6	Course Title	Credit Hours
GEO 3700	Structure and Tectonics	4
GEO 4500	Sedimentary Geology WE	4
METO 3100	Climate and the Earth System	3
EDSP 340G	Exceptional Students GI	2
SCIE 4220	Teaching Methods in Science II	3
Semester total:		16
Semester 7	Course Title	Credit Hours
EDSC 3000	Educational Psychology	3
EDSC 325G	Equitable Technology Integration GI	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Education ESL GI	3
EDSC 455G	Secondary Curriculum Instruction and Assessment GI	3
EDSC 4200	Classroom Management I	2
Semester total:		16
Semester 8	Course Title	Credit Hours
EDSC 4250	Classroom Management II	2
EDSC 4850	Student Teaching Secondary	8
EDSC 4990	Teacher Performance Assessment Project WE	2
Semester total:		12
Degree total:		121