



# DEPARTMENT OF GEOLOGY & GEOPHYSICS

COLLEGE OF MINES AND EARTH SCIENCES | THE UNIVERSITY OF UTAH

## COURSE REQUIREMENTS

### BACHELOR OF SCIENCE IN EARTH SCIENCE/COMPOSITE TEACHING MAJOR

#### Required Courses

Complete all of the following:

<b>Geoscience Core:</b>	<u>Credits</u>	<u>Semester</u>	<u>Prerequisites</u>
• GEO 1100 Evolving Earth	3	Fall/Spring	None
• GEO 2100 Reactive Earth	3	Fall/Spring	CHEM 1210, GEO 1100
• GEO 2500 Wasatch in the Field	3	Fall	None
• GEO 3100 Dynamic Earth	3	Fall/Spring	PHYS 2210, GEO 2100
• GEO 4500 Field Methods	3	Spring	GEO 2500, 3100
<b>Geoscience:</b>			
Complete the following:			
• GEO 3030 Living with Quakes	3	Fall/Spring	None
Complete at least 1 of the following:			
• GEO 3010 Geophysics	3	Spring	PHYS 2020
• GEO 4060 Struc Geol & Tectonics	4	Spring	
Complete at least 3 credits from courses GEO 1000-5999			

#### Allied Sciences

Complete all of the following:

<b>Astronomy:</b>			
Complete at least 1 of the following:			
• ASTR 1060 The Universe	3	Fall/Spring	None
• ASTR 2060 Popular Observ Astr	3	Fall	MATH 1010
<b>Atmospheric Science:</b>			
Complete at least 1 of the following:			
• ATMOS 1010 Sev & Unusual Weather	3	All	None
• ATMOS 1020 Climate Change	3	Fall/Spring	None
<b>Biology:</b>			
Complete at least 1 of the following:			
• BIOL 1210 Principles of Biology	4	All	None
• BIOL 1620 Fund Prin of Biol II	3		MATH 1010
<b>Chemistry:</b>			
Complete all of the following:			
• CHEM 1210 General Chemistry I	4	All	MATH 1050
• CHEM 1215 Gen Chem I Lab	1	All	CHEM 1210 coreq
• CHEM 1220 General Chemistry II	4	All	CHEM 1210
• CHEM 1225 Gen Chem II Lab	1	All	CHEM 1215
<b>Math:</b>			
Complete all of the following:			
• MATH 1050 College Algebra	4	All	MATH 1010
• MATH 1060 Trigonometry	3	All	MATH 1050
• MATH 1210 Calculus I	4	All	MATH 1050 & 1060 or MATH 1080
<b>Physics:</b>			
Complete 1 of the following sequences:			
• PHYS 2010 General Physics I	4	All	MATH 1050 & 1060
• PHYS 2020 General Physics II	4	All	PHYS 2010

**OR**

- PHYS 2210 Phys for Sci & Eng I 4 All MATH 1210
- PHYS 2220 Phys for Sci & Eng II 4 All PHYS 2210 & MATH 1220

**Secondary Education Teaching Licensure**

Complete all of the following:

- EDU 5375 Science Methods 3 None

**Introductory Education Courses:**

Complete all of the following:

- EDU 1010 Introduction to Teaching 3 None
- ECS 2150 Intro to Multicultural Ed 3 ETHNC 2550, 2560, 2570, 2580, or 2590

Complete at least 1 of the following:

- ETHNC 2550 African American Exp 3 None
- ETHNC 2560 Chicana/o Experiences 3 None
- ETHNC 2570 American Indian Exp 3 None
- ETHNC 2580 Asian Pacific Am Exp 3 None
- ETHNC 2590 Pacific Islander Am Exp 3 None

Complete at least 1 of the following:

- ED PS 3721 Child Dev & Learn (7-12) 3 None
- PSY 1230 Psych of Adolescence 3 None
- PSY 3220 Child & Adolescent Dev 3 None
- FCS 5230 Adolescence 3 None

**Intermediate Education Courses:**

Complete all of the following:

- EDU 5200 Teacher Lang Awareness 3 None
- ED PS 5151 Educ App of Tech (6-12) 3 None
- SP ED 5012 Teach Stud with Disabilities 3 None
- SP ED 5021 Princ of Assess & Data 3 None
- SP ED 5022 Prin of Instr & Beh Support 3 None

**Advanced Education Courses:**

Complete all of the following:

- ECS 5645 Assess of Ling Div Populations 3 Check with EDU advisor
- ECS 5709 Building Family-School Partn 3 Check with EDU advisor

**Licensure Year:**

Complete all of the following:

- EDU 5490 Field Practicum: Secondary 3 Check with EDU advisor
- EDU 5491 Professional Dev & Teach Res 3 Check with EDU advisor
- EDU 5495 Student Teaching: Secondary 1-12 Check with EDU advisor

**Other Requirements**

University of Utah General Education Requirements

**Secondary Education Teaching License: Students interested in obtaining a secondary education teaching license must contact the Secondary Education advisor for information on licensure coursework.**

**The University of Utah requires a total of 122 college level credits to complete a Bachelor's degree. Additional elective courses may need to be completed to fulfill the total of 122 credits. Check with your academic advisor with any questions or concerns.**

**Academic Advisor**  
 Michelle Tuitupou  
[michelle.tuitupou@utah.edu](mailto:michelle.tuitupou@utah.edu)  
 801-581-6553  
 383 FASB



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## SAMPLE SCHEDULE BACHELOR OF SCIENCE IN EARTH SCIENCE COMPOSITE TEACHING

<u>Fall Semester</u>		<u>Spring Semester</u>	
MATH 1050	4	MATH 1060	3
EDU 1010	3	CHEM 1210	4
GEO 1100	3	CHEM 1215	1
ATMOS 1010 or 1020	3	GEO 2100	3
*WRTG 2010	<u>3</u>	*AI	<u>3</u>
Total:	16	Total:	15

<u>Summer</u>	
Secondary Ed requirement	3
Secondary Ed requirement	3
*HF	3
*BF	<u>3</u>
	12

<u>Fall Semester</u>		<u>Spring Semester</u>	
MATH 1210	4	PHYS 2010 or 2210	4
GEO 2500	3	GEO 3100	3
ETHNC 25xx	3	BIOL 1210 or 1610	4
CHEM 1220	4	ECS 2150	3
CHEM 1225	<u>1</u>	*FF	<u>3</u>
	15		17

<u>Summer</u>	
*FF	3
*BF	<u>3</u>
	6

<u>Fall Semester</u>		<u>Spring Semester</u>	
PHYS 2020 or 2220**	4	GEO 4500	3
GEO 3030	3	GEO 3010***	3
GEO 5375	3	Secondary Ed requirement	3
ASTR 1060 or 2060	3	Secondary Ed requirement	3
Secondary Ed requirement	<u>3</u>	Secondary Ed requirement	<u>3</u>
	16		15

<u>Fall Semester</u>		<u>Spring Semester</u>	
Secondary Ed requirement	3	EDU 5491	3
Secondary Ed requirement	3	EDU 5495	<u>1-12</u>
EDU 5490	3		12-15
*QI	<u>3</u>		
	12		

**\*These courses can be interchangeable. Please check schedule for availability.**

Teaching Endorsements: Middle School Science, High School Earth Science & Physical Science

**\*\*PHYS 2220 requires MATH 1220 as a prerequisite**

**\*\*\*GEO 3010 recommended along with PHYS 2015 or 2215 (Lab) for Teaching Endorsements: Physics & AP Physics**

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