



# Science and Mathematics Education

## Bachelor of Arts, STEM Teaching Program

### Four-Year Academic Road Map

#### Geology + STEM Teaching Program

Sample only—your academic advisor will help you create a plan that is right for you.  
Upper-division electives will be selected in consultation with your faculty mentor.

YEAR 1	Fall Quarter		Winter Quarter		Spring Quarter		
	UNIV 101	Transition to CWU	MATH 153	Precalculus I	MATH 154	Precalculus II	
	MATH 152*	Functions and Reasoning	ENG 101	Academic Writing I	K1	(ex. ENG 111)	
	GEOL 101	Introduction to Geology	GEOL 202	Natural Hazards and Tectonics	Academic Writing II		
	PHYS 101	Introductory Astronomy I			Geol 203	Earth History	
Total Quarter Credits		16	Total Quarter Credits		13	Total Quarter Credits	14

YEAR 2	Fall Quarter		Winter Quarter		Spring Quarter		
	GEOL 201	Climate and Water	K3 Creative Expression	(ex. MUS 103)	K4 Global Dynamics	(ex. RELS 103)	
	GEOL 210	Introduction to Geologic Field Methods	GEOL 384	Oceans, Atmosphere, and Climate Interactions	GEOL 351	Geology of the Pacific Northwest	
	CHEM 111 + Lab	Introduction to Chemistry	STP 201	Inquiry Approaches to Teaching	GEOL 386	Geomorphology	
	K2 Community Culture and Citizenship	(ex. LAJ 102)	K8 Science & Technology	(ex. NUTR 101)	STP 202	Inquiry Based Lesson Design	
Total Quarter Credits		17	Total Quarter Credits		16	Total Quarter Credits	15

YEAR 3	Fall Quarter		Winter Quarter		Spring Quarter		
	GEOL 320	Rocks and Minerals	STP 303	Knowing and Learning	STP 304	Classroom Interactions 1	
	PHYS 111	Introductory Physics I with Laboratory	K5 Humanities	(ex. HUM 101)	GEOL Elective	(ex. GEOL 478)	
	GEOL 382	Earth Resources and Pollution	GEOL Elective	(ex. GEOL 371)	STP 307A	Functions and Modeling for STEM Teaching	
					GEOL 493	Environmental field methods	
Total Quarter Credits		14	Total Quarter Credits		14	Total Quarter Credits	15

YEAR 4	Fall Quarter		Winter Quarter		Spring Quarter		
	GEOL 370	Sedimentology and Stratigraphy	STP 309	Research Methods	EFC 480	Student Teaching	
	STP 405	Classroom Interactions 2	STP 406	Project-Based Instruction	STP 465	Instructing and Assessing Inquiry Based STEM Education	
	STP 308	Perspectives on Science, Mathematics, and STEM Education	STP 450	Planning Inquiry Based STEM Education			
			GEOL 487	End-of-major Review Seminar			
Total Quarter Credits		14	Total Quarter Credits		14	Total Quarter Credits	18
<b>Total Credits</b>						<b>180</b>	

\*Assumes appropriate Math placement. If your placement suggests a different starting point your advisor will design a plan that fits your needs and helps you build a strong foundation for success.

Other programs to consider: Environmental Science

**Department Webpage**



**CWU Degree Requirements**



**CWU Course Catalog**

