



Geology B.A. Major with STEM Teaching Program Minor (Earth/Space Science 5-12th)

This major partially satisfies the criteria for a teaching endorsement in Earth Science (5-12), qualifying students to teach Earth science at the high school, middle, or junior high levels. Students who successfully complete the Geology BA and STEM Teaching Program Minor (an alternative to the Professional Education Program) are eligible to apply for Washington State teacher certification. Teacher certification candidates must receive a C grade or higher in all major and STEM Teaching Program courses, have a GPA of at least 3.0 for either the last 45 graded quarter credits or overall CWU/transfer cumulative, and meet all Washington State teacher certification requirements. See the geology/Earth science and STEM Teaching advisors as soon as possible to develop a course of study.

Pre-Requisites

MATH 153 completed Major/Minor applications completed Entry to major survey completed

Required Courses	Credits	Plan	Completed
Geology B.A. (Major)			
MATH 153, 154 Pre-Calculus I/II	10		
Phys 101 Intro to Astronomy	5		
GEOL 101+L Exploring Earth	4		
GEOL 200 Earth's Evolution and Global Change	5		
GEOL 210 Intro to Geologic Field Methods	4		
GEOL 305 Quantitative Reasoning for Geoscientists	4		
GEOL 320 Rocks and Minerals	5		
GEOL 351 Geology of the Pacific Northwest	3		
GEOL 370 Sedimentology and Stratigraphy	5		
GEOL 380 Natural Hazards OR GEOL 382 Earth Resources and Pollution (4)	5		
GEOL 384 Ocean, Atmosphere and Climate Interactions	4		
GEOL 386 Geomorphology	5		
GEOL 487 End-of-major Review Seminar	1		
GEOL 493 Field Methods in Environmental Geology	4		
Electives: Two department approved	8-10		
Geology major subset:	74		

STEM Teaching Program (Minor)

Pre-admission courses (must complete before full admission)			
STP 301 Inquiry Approaches to Teaching	OR STP 302A Inquiry Based Teaching & Lesson Design (4)	2	
STP 302 Inquiry Based Lesson Design		2	
Fully Admitted Courses (must be fully admitted to Teacher Certification)			
STP 303 Knowing and Learning (pre-req to all following classes)		4	
STP 304 Classroom Interactions 1		4	
STP 305 Classroom Interactions 2		4	
STP 306 Project-Based Instruction		3	
STP 307 Functions and Modeling		3	
STP 308 Historical Perspectives in STEM Education		3	
STP 309 Research Methods		3	
EFC 480 – Student Teaching (Must meet all Student Teaching Requirements)		16	
Minor subset:		44	
Total Credits:		118	



EXAMPLE 4-Year Plan – Meet with your major and STP advisor to individualize your plan before registering for classes.

	Fall	Winter	Spring
Freshman Year	Gen Ed 9 Geol 101+L 5 Total 14	Gen Ed 9 ^Math 153 Geol 200 5 Total 14	Gen Ed 18 ^CS 105 ^Math 154 Total 18
Sophomore Year	Gen Ed 5 Geol 210 4 Geol 305 4 Geol 320 5 Total 18	Gen Ed 10 Geol 380 5 STP 301 2 Total 17	Gen Ed 5 Geol 351 3 Geol 370 5 STP 302 2 Total 17
Junior Year	Phys 101 5 Phys 111+L 5 STP 303 4 Total 14	Phys 112+L 5 Geol 386 5 STP 304 4 Total 14	Gen Ed 5-10 Geol 493 4 STP 307 3 Total 12-17
Senior Year	Geol 384 4 Geol Elective 4-5 STP 305 4 STP 308 3 Total 15-16	Gen Ed 5 Geol 487 1 Geol Elective 4-5 STP 306 3 STP 309 3 Total 16-17	EFC 480 16 Total 16

^Suggested Basic and Breadth classes

Student Name: _____ ID#: _____

Email: _____

Signature _____ Date: _____

STEM Teaching Minor Advisor Signature: _____ Date: _____

Major Advisor Signature: _____ Date: _____