



Science and Mathematics Education

Bachelor of Arts, STEM Teaching Program

Four-Year Academic Road Map

Physics + 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	K1 Academic (ex. ENG 111) Writing II		K2 (ex. WGSS 201) Community Culture and Citizenship		
	MATH 172	Calculus I	MATH 173	Calculus II	MATH 272	Multivariable Calculus I	
	PHYS 181	General Physics I with Laboratory	PHYS 182	General Physics II with Laboratory	PHYS 183	General Physics III with Laboratory	
	ENG 101	Academic Writing I					
Total Quarter Credits		16	Total Quarter Credits		15	Total Quarter Credits	15

YEAR 2	Fall Quarter		Winter Quarter		Spring Quarter		
	MATH 273	Multivariable Calculus II	MATH 265	Linear Algebra	PHYS 331	Laboratory Practices and Techniques	
	PHYS 317	Modern Physics I	STP 201	Inquiry Approaches to Teaching	STP 202	Inquiry Based Lesson Design	
	PHYS 363	Optics	PHYS 289	How to Succeed as a Physics Major	K3 Creative Expression	(ex. MUS 103)	
	Elective		PHYS 318	Modern Physics II	Elective		
Total Quarter Credits		17	Total Quarter Credits		15	Total Quarter Credits	18

YEAR 3	Fall Quarter		Winter Quarter		Spring Quarter		
	STP 303	Knowing and Learning	PHYS 361	Computational Physics	PHYS 495	Undergraduate Research	
	CHEM 181	General Chemistry I	CHEM 182	General Chemistry II	STP 304	Classroom Interactions 1	
	CHEM 181L	General Chemistry Laboratory I	CHEM 182L	General Chemistry Laboratory II	STP 307A	Functions and Modeling for STEM Teaching	
	PHYS 333	Experimental Physics	STP 308	Perspectives on Science, Mathematics and STEM Education	K5 Humanities	Research Methods	
Total Quarter Credits		16	Total Quarter Credits		13	Total Quarter Credits	12

YEAR 4	Fall Quarter		Winter Quarter		Spring Quarter		
	K4 Global Dynamics	(ex. PHIL 104)	PHYS Elective	(ex. PHYS 304)	EFC 480	Student Teaching	
	STP 405	Classroom Interactions 2	STP 406	Project-Based Instruction	STP 465	Instructing and Assessing Inquiry Based STEM Education	
	K8 Science and Technology	(ex. NUTR 101)	STP 450	Planning Inquiry Based STEM Education			
			PHYS 489	Senior Assessment			
Total Quarter Credits		12	Total Quarter Credits		13	Total Quarter Credits	18
Total Credits						180	

*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: Applied Math, Chemistry, Biology

Department Webpage



CWU Degree Requirements



CWU Course Catalog

