



Science and Mathematics Education

Bachelor of Arts, STEM Teaching Program

Four-Year Academic Road Map

Biology + 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.

	Fall Quarter	Winter Quarter	Spring Quarter
YEAR 1	UNIV 101 Transition to CWU	MATH 153 Precalculus I	K8: Science and Technology (ex. SCED 103)
	MATH 152* Functions and Reasoning	K1: Academic Writing II (ex. ENG 102)	K4: Global Dynamics (ex. RELS 103)
	Academic Writing I (ex. ENG 101)	K3: Creative Expression (ex. MUS 103)	K5: Humanities (ex. HIST 102)
	K2: Community Culture and Citizenship (ex. LAJ 102)		
	Total Quarter Credits 16	Total Quarter Credits 15	Total Quarter Credits 15
YEAR 2	BIOL 181 General Biology I	BIOL 182 General Biology II	BIOL 183 General Biology III
	CHEM 181 General Chemistry I	CHEM 182 General Chemistry II	CHEM 183 General Chemistry III
	CHEM 181L General Chemistry Lab I	CHEM 182L General Chemistry Lab II	CHEM 183L General Chemistry Lab III
	General elective	STP 201 Inquiry Approaches to Teaching	STP 202 Inquiry Based Lesson Design
	Total Quarter Credits 15	Total Quarter Credits 17	Total Quarter Credits 16
YEAR 3	BIOL 213 Biostatistics	STP 308 Perspectives on Science, Math, and STEM Education	STP 304 Classroom Interactions 1
	STP 303 Knowing and Learning	BIOL 312 Genetics	STP 307A Functions and Modeling for STEM Teaching
	CHEM 361 Organic Chemistry	BIOL 441 Plant Physiology	BIOL 360 General Ecology
	CHEM 361L Organic Chemistry Lab		General elective
	Total Quarter Credits 13	Total Quarter Credits 14	Total Quarter Credits 13
YEAR 4	STP 405 Classroom Interactions 2	STP 406 Project-Based Instruction	EFC 480 Student Teaching
	BIOL 323 Microbiology	STP 450 Planning Inquiry Based STEM Instruction	STP 465 Instructing and Assessing Inquiry Based STEM Education
	BIOL 470 Mechanisms of Evolution	BIOL 430 Cell Biology	
	BIOL 487 Biology Capstone	STP 309 Research Methods	
	Total Quarter Credits 15	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: Chemistry minor, Sport Coaching minor, Psychology minor, Child Development minor

Department Webpage	CWU Degree Requirements	CWU Course Catalog
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