

SECONDARY SCIENCE - CHEMISTRY, POST- BACCALAUREATE CERTIFICATE

This program leads to Colorado Teacher licensure in Secondary Science. It is for individuals who have completed a bachelor's degree from a regionally-accredited institution. It can be completed in conjunction with our M.Ed. program.

Goals

To prepare individuals for Colorado Teacher licensure in Secondary Science.

Specific Program Requirements

Students pursuing this certificate must meet all requirements of the Teacher Education Program.

Course	Title	Credits
BIOL 100	Principles of Biology (GT-SC2)	3.00
BIOL 100L	Principles of Biology Lab (GT-SC1)	1.00
BIOL 121	Environmental Conservation (GT-SC2)	3.00
BIOL 121L	Environmental Conservation Lab (GT-SC1)	1.00
CHEM 121	General Chemistry I (GT-SC2)	4.0
CHEM 121L	General Chemistry Lab I (GT-SC1)	1.00
CHEM 122	General Chemistry II (GT-SC2)	4.00
CHEM 122L	General Chemistry Lab II (GT-SC1)	1.00
CHEM 211	Introduction to Organic Chemistry	3.00
or CHEM 301	Organic Chemistry I	
CHEM 211L	Intro to Organic Chemistry Lab	1
or CHEM 301L	Organic Chemistry Lab I	
CHEM 311	Biochemistry Survey	3.00
CHEM 317	Quantitative Analysis	3.00
CHEM 317L	Quantitative Analysis Lab	2.00
CHEM 321	Physical Chemistry I	3.00
CHEM 419	Instrumental Analysis	3.00
or CHEM 420	Inorganic Chemistry	
CHEM 419L	Instrumental Analysis Lab	2.00
or CHEM 420L	Inorganic Chemistry Lab	
GEOL 101	Earth Science (GT-SC2)	3.00
GEOL 101L	Earth Science Lab (GT-SC1)	1.00
MATH 126	Calculus & Analytic Geometry I (GT-MA1)	5.00
MATH 224	Calculus and Analytic Geometry II	5.00
PHYS 221	General Physics I	4.00
PHYS 221L	General Physics I Lab	1.00
PHYS 222	General Physics II	4.00
PHYS 222L	General Physics II Lab (GT-SC1)	1.00
ENG 101	Rhetoric & Writing I (GT-CO1)	3.0
ENG 102	Rhetoric & Writing II (GT-CO2)	3.0
CID 103	Speaking & Listening	3
PSYC 151	Human Development (GT-SS3)	3.00

or PSYC 251	Childhood and Adolescence	
ED 202	Foundations of Education	3.00
ED 520	Educational Media and Technology	3.00
ED 560	Professional Develop in Curriculum & Instruction	4.00
ED 512	Teaching Diverse Learners	3.0
ED 544	Teaching Secondary Science	3.0
RDG 535	Advanced Disciplinary Literacy	3.0
ED 485	Capstone Seminar in Education	1.00
ED 488	Student Teaching Secondary	12.00