



Office of
Transfer Relations

Catalog: 2026-2027 University of Wyoming Catalog Program:
Secondary Education, B.A. Chemistry Education with Concurrent
Major in Chemistry (CHSE)

Wyoming Transfer Alignment Guide (WyoTAG)

Secondary Education, B.A. Chemistry Education with Concurrent Major in Chemistry (CHSE)

This degree program leads to initial teaching licensure (leading to teaching certification); it prepares students to teach chemistry in grades 6-12.

Degree Requirements

This degree requires a minimum of 120 credits, 42 of which are upper division credits.

University Studies Program

This degree requires that The University Studies Program 2015 requirements are met before graduation. Some of the courses required for this major fulfill USP requirements, but not all. Students should check their degree evaluations and consult with their assigned academic advisor to discuss their specific course plan.

Course Name	Credits	UW Course in Major	AA/AS/AB/ADN satisfies this USP
C 1-Communication 1 (COM1)	3		X
C 2-Communication 2 (COM2)	3		X
C 3-Communication 3 (COM3)	3	(Must be completed at UW)	
Q-Quantitative Reasoning (Q)	3		X
PN-Physical and Natural World (1) (PN)	3		X
PN-Physical and Natural World (2) (PN)	3		X
H-Human Culture (1) (H)	3		X
H-Human Culture (2) (H)	3		X
V-US & WY Constitution (V)	3		X
FYS or USP Elective-Any 3-credit hour of FYS or 3-credit hours of USP electives	3		X

Note: FYS courses have been paused. 3 hours from any additional USP designated courses is still required.

Professional Education Requirements

Graduates of this program earn a Bachelor's Degree in Chemistry Education and a concurrent major in Chemistry. It prepares students to teach Chemistry in grades 6-12.

A minimum of 120 credit hours is required for this degree program. All major courses must be passed with a grade of C or better. A minimum UW cumulative GPA of 2.75 is required for most junior and senior level professional education courses, including EDSE 4500 Residency in Teaching. A minimum GPA of 2.50 in major content courses is required. The College of Education requires a UW cumulative GPA of 2.75 for graduation. A minimum of 42 credits must be upper-division.

An initial background check must be completed prior to starting any field or practicum experience. Student fees cover the cost of this initial background check so work with your College of Education advisor for details.

All Professional Education requirements must be completed with a grade of C or higher.

Foundations

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
EDST 2450 - Foundations of Development and Learning H	3	Note 1	Note 1	Note 1	X	Note 1	X	X
ITEC 2360 - Teaching and Learning with Educational Technology	3	X	X	X	X	X	X	X

Completion of EDST 2450 with a minimum grade of C or better is a prerequisite for the following courses:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
EDEX 2484 - Introduction to Special Education	3	X	X	X	X	X	X	X

A minimum 2.75 UW cumulative GPA is required for registration in EDST 3100 and EDST 3101. A current background check, approved by the College of Education, no older than one year, must be on file with the College of Education Student Success Center.

Course Name	Credits	
EDST 3100 - Teacher as Practitioner C2	3	UW Course
EDST 3200 - Foundations of ESL Learning	3	UW Course
EDST 3480 - Schools and Society H	3	UW Course

Practicum

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
EDST 1200 - Practicum I	1	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
EDST 2200 - Practicum 2	1	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2

Course Name	Credits	
EDST 3101 - Practicum 3 C2	2	UW Course

Assessment

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
EDST 2250 - Educational Assessment	3	X	X		X			X

Methods

Course Name	Credits	
EDSE 3275 - Subject Matter Specific Methods I: Secondary Science Education (3 credits required)	3-6	UW Course
EDSE 4275 - Subject Matter Specific Methods II: Secondary Science Education (4 credits required) C3	3-6	UW Course

Residency

Course Name	Credits	
EDSE 4500 - Residency in Teaching (12 credits required)	1-16	UW Course
EDSE 4550 - Residency Applications and Synthesis	3	UW Course

Chemistry Requirements

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
CHEM 1020 - General Chemistry I PN OR CHEM 1050 - Advanced General Chemistry I PN	4	X	X	X	X	X	X	X
CHEM 1030 - General Chemistry II PN OR CHEM 1060 - Advanced General Chemistry II PN	4	X	X	X	X	X	X	X
CHEM 2230 - Quantitative Analysis	5	X	X				X	
CHEM 2420 - Organic Chemistry I	4	X	X	X	X	X	X	X
CHEM 2440 - Organic Chemistry II	4	X	X	X	X	X	X	X

Course Name	Credits	
CHEM 4110 - Introductory Inorganic Chemistry	3	UW Course
CHEM 4507 - Introduction to Quantum Mechanics OR CHEM 3550 - Physical Chemistry for the Life Sciences	3	UW Course

ADDITIONAL REQUIRED COURSEWORK:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
LIFE 1010 - General Biology PN	4	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
MATH 2200 - Calculus I Q	4	X	X	X	X	X	X	X
MATH 2205 - Calculus II Q	4	X	X	X	X	X	X	X
MICR/MOLB 2021 - General Microbiology	4	Note 4	Note 4	Note 4		Note 4	Note 4	Note 4
PHYS 1110 - General Physics I PN OR PHYS 1210 - Engineering Physics I PN	4	X	X	X	X	X	X	X
PHYS 1120 - General Physics II PN OR PHYS 1220 - Engineering Physics II PN	4	X	X	X	X	X	X	X

Course Name	Credits	
MOLB 3610 - Principles of Biochemistry OR CHEM 4400 - Biological Chemistry	3-4	UW Course

Upper Division Elective Courses

6 credit hours minimum of 3000-level or above; courses must come from CHEM, LIFE, or MOLB and include one of the following:

Course Name	Credits	
CHEM 4100 - Advanced Inorganic Chemistry Laboratory Course	2	UW Course
CHEM 4230 - Instrumental Methods of Chemical Analysis	5	UW Course
CHEM 4525 - Physical Chemistry Lab I	1	UW Course

Notes

Note 1: Students at CWC & EWC must take both EDFD 2100 and EDFD 2450 to receive credit for EDST 2450. Students at Casper and Sheridan may take PSYC 2300 + EDFD 2450 to receive credit for EDST 2450.

Note 2: At all WYCCs, EDUC 2100 is equivalent to *both* EDST 1200 + EDST 2200 at UW.

Note 3: All WYCCs offer BIOL 1010 which is equivalent to LIFE 1010.

Note 4: MOLB 2210 is equivalent to LIFE/MICR/MOLB 2021.

COURSE SUBSTITUTIONS: WyoTAGs reflect published equivalencies. UW academic departments occasionally arrange for course substitutions when indirect equivalencies exist. Please contact your UW Academic Advisor for details.

EFFECTIVE DATE: This document is in effect as of the 2026-2027 catalog year; it reflects the published UW curriculum as of that date. Any changes to the UW curriculum or the WYCC course equivalents will require this document to be updated. To request an updated document, faculty should contact transfer@uwyo.edu via email.