



Office of
Transfer Relations

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

Wyoming Transfer Alignment Guide (WyoTAG)

Secondary Education, B.A. -Mathematics Education with Concurrent Major in Mathematics (MSEC)

This degree program leads to initial teaching licensure (leading to teaching certification), it prepares students to teach mathematics 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 Mathematics Education and a concurrent major in Mathematics. It prepares students to teach Mathematics 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 3271 - Subject Matter Specific Methods I: Secondary Mathematics Education (3 credits required)	3-6	UW Course
EDSE 4271 - Subject Matter Specific Methods II: Secondary Mathematics 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

Major Content

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
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
MATH 2210 - Calculus III	4	X	X	X	X	X	X	X
MATH 2250 - Elementary Linear Algebra	3	X	X	X	X	X	X	X
MATH 2310 - Applied Differential Equations I	3	X	X		X	X	X	X

Course Name	Credits	
MATH 2485 - Mathematics Major Seminar	3	UW Course
MATH 3500 - Abstract Algebra I: Introduction to Abstract Algebra	3	UW Course
MATH 3340 - Introduction to Scientific Computing	3	UW Course
MATH 3205 - Analysis I: Elementary Real Analysis	3	UW Course
MATH 4000 - History of Mathematics	3	UW Course
MATH 4150 - Secondary School on Campus (3 credits required)	1-4	UW Course
MATH 4600 - Foundations of Geometry	3	UW Course

Major Related Statistics Courses - 3-4 Hours

Take **ONE** of the Following (STAT 2050 or STAT 2070 are recommended):

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
STAT 2000 - Statistics and the World Q	3	X	X					
STAT 2050 - Fundamentals of Statistics Q	4	X	X	X	X	X	X	X
STAT 2070 - Introductory Statistics for the Social Sciences Q	4	X		X		X	X	X

Course Name	Credits	
STAT 3050 - Statistical Methods	3	UW Course

Depth & Sequence Courses - 6 Hours

Take **ONE** of the Following Selected Pairs:

Pair 1

Course Name	Credits	
MATH 4200 - Analysis 2: Advanced Analysis C3 AND MATH 4205 - Analysis 3: Undergraduate Topics in Analysis	6	UW Course

OR

Pair 2

Course Name	Credits	
MATH 4340 - Numerical Methods for Ordinary and Partial Differential Equations AND MATH 4440 - Introduction to Partial Differential Equations I	6	UW Course

OR

Pair 3

Course Name	Credits	
MATH 4510 - Abstract Algebra II: A Second Course in Abstract Algebra C3 AND MATH 4520 - Algebra III: Topics in Abstract Algebra	6	UW Course

Breadth Electives - 3 Hours

Take **ONE** of the Following:

Course Name	Credits	
MATH 3700 - Combinatorics	3	UW Course
MATH 4230 - Introduction to Complex Analysis	3	UW Course
MATH 4255 - Mathematical Theory of Probability	3	UW Course
MATH 4265 - Introduction to the Theory of Statistics	3	UW Course
MATH 4300 - Introduction to Mathematical Modeling (<i>Strongly Recommended</i>)	3	UW Course
MATH 4500 - Matrix Theory (<i>Strongly Recommended</i>)	3	UW Course

OR

any 3000 or 4000 mathematics or statistics course allowed as an elective in the mathematics program.

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.

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.