

2025-2026 Block Transfer Map: Qualifying Transfer Associate Degree from a Wyoming Community College to the University of Wyoming Secondary Science - Earth Science Education with Concurrent Major in Environmental Systems Science (ESSE), B.A.

This Block Transfer has been written for students who have earned a qualifying transfer associate degree (*Associate of Arts (AA)*, *Associate of Science (AS)*, *Associate of Business (AB)*, or *Associate Degree in Nursing (ADN)*) with a minimum of sixty (60) credits in any major from one of the Wyoming Community Colleges (WYCC) who wish to complete the Bachelors in Secondary Science - Earth Science Education with Concurrent Major in Environmental Systems Science (ESSE) at the University of Wyoming (UW).

While some of the courses taken for the associate degree at the Community College are not specified in this document, the UW degree program relies on the foundational coursework completed for the associate degree to prepare the student for baccalaureate-level study.

Students may create a [WyoTransfer](#) account now to see how all completed coursework fulfills specific degree requirements.

Courses/categories that could/should be taken at the WYCCs are highlighted in GREEN. Students may satisfy these requirements by taking an equivalent course at a community college. The UW course is listed on the left; if a community college offers an equivalent course, it will be listed under the community college name in the table.

Courses/categories that are offered at some (but not all) of the WYCCs and at UW are highlighted in TURQUOISE. Students may take these courses at a community college that offers an equivalent course or after transferring to UW.

Courses/categories that must be taken at UW are highlighted in GOLD. If a student wishes to take any of these courses at another institution, they must speak with their UW academic adviser.

BLOCK 1: University Studies Program (USP) Requirement

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.

Please refer to the [University Catalog](#) and click on the link in the left-hand navigation pane titled “The University Studies Program 2015” for more information.

A grade of C or above is required for University Studies Program (USP) categories: FYS, C1, C2, and C3.

	USP Requirement	UW Course in Major
C1	Communication 1 (3cr)	Satisfied upon completion of qualifying associate degree
C2	Communication 2 (3cr)	Satisfied upon completion of qualifying associate degree
C3	Communication 3 (3cr)	Must take at UW
Q	Quantitative Reasoning (3cr)	MATH 2200
PN	Physical and Natural World (1) (3cr)	CHEM 1020
PN	Physical and Natural World (2) (3cr)	Satisfied upon completion of qualifying associate degree
H	Human Culture (1) (3cr)	EDST 2450
H	Human Culture (2) (3cr)	Satisfied upon completion of qualifying associate degree
V	U.S. & WY Constitution (3cr)	Satisfied upon completion of qualifying associate degree
	Any 3-credit hour of FYS or 3-credit hours of USP electives (3cr)	Satisfied upon completion of qualifying associate degree

Secondary Science - Earth Science Education with Concurrent Major in Environmental Systems Science (ESSE)

This degree program leads to initial teaching licensure (leading to teaching certification).

BLOCK 2: Lower Division Course Requirements

University of Wyoming Requirements:

- Total minimum credits required (including transfer credit) is 120 credits.
- Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be taken in residence at UW.
- No more than 4 credits of physical activity may be applied to the minimum credit hour requirement for UW baccalaureate degree.
- Minimum Cumulative GPA is 2.00.
- The UW Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.

Professional Education Requirements

- 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.
- 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

UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Professional Education Requirements							
Foundations							
EDST 2450 Foundations of Development and Learning (3cr) (H)	EDFD 2100 + PSYC 2300	EDFD 2100 + EDFD 2450	EDFD 2100 + EDFD 2450	EDST 2450	EDFD 2100 + PSYC 2300	EDST 2450	EDST 2450
ITEC 2360 - Teaching with Technology (3cr)	ITEC 2360	ITEC 2360	ITEC 2360	ITEC 2360	ITEC 2360	ITEC 2360	ITEC 2360
<i>Completion of EDST 2450 with a minimum grade of C or better is a prerequisite for the following course:</i>							
EDEX 2484 - Introduction to Special Education (3cr)	EDEX 2484	EDEX 2484	EDEX 2484	EDEX 2484	EDEX 2484	EDEX 2484	EDEX 2484
Practicum							
EDST 1200 – Practicum I (1cr) + EDST 2200 – Practicum 2 (1cr) EDST 2200 – Practicum 2 (1cr)	EDUC 2100	EDUC 2100	EDUC 2100	EDUC 2100	EDUC 2100	EDUC 2100	EDUC 2100
Assessment							
EDST 2250 - Educational Assessment (3cr)	EDST 2250	EDST 2250		EDST 2250			EDST 2250
Environmental Systems Science Foundations							
ESS 1000 - Wyoming in the Earth System (3cr) (PN)	<i>or (3) credit approved equivalent</i>						
PLNT 1000 - Agroecology (4cr) (PN) OR ENR 1200 - Environment (4cr) (PN) OR LIFE 1010 - General Biology (4cr) (PN)	AECL 1000 OR ENR 1200 OR BIOL 1010	AECL 1000 OR BIOL 1080 OR BIOL 1010	AECL 1000 OR BIOL 1010	AECL 1000 OR BIOL 1010	AECL 1000 OR BIOL 1010	AECL 1000 OR BIOL 1080 OR BIOL 1010	BIOL 1010

BLOCK 2: Lower Division Course Requirements Cont'd

UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Environmental Systems Science Foundations Cont'd							
ENR/GEOL 1330 - Water, Dirt, and Earth's Environment (4cr) (PN) OR GEOG 1010 - Introduction to Physical Geography (4cr) (PN) OR GEOL 1100 - Physical Geology (4cr) (PN)	ENR 1330 OR GEOL 1330 OR GEOG 1010 OR GEOL 1100	GEOG 1010 OR GEOL 1100	GEOL 1100	GEOG 1010 OR GEOL 1100	GEOL 1100	GEOL 1100	GEOL 1100
CHEM 1020 - General Chemistry I (4cr) (PN)	CHEM 1020	CHEM 1020	CHEM 1020	CHEM 1020	CHEM 1020	CHEM 1020	CHEM 1020
ESS/GEOL 2000 - Geochemical Cycles and the Earth System (4cr)	GEOL 2000					GEOL 2000	
Additional Math/Science Courses							
<i>*Note: The general B.S. in ESS will allow for students to complete STAT 2050 (or 2070) or MATH 2200 and either PHYS 1050 or PHYS 1110. However, the ESSE program will require MATH 2200 + PHYS 1110 to meet additional teaching endorsement requirements in other sciences.</i>							
MATH 1400 - College Algebra (3cr) (Q)	MATH 1400	MATH 1400	MATH 1400	MATH 1400	MATH 1400	MATH 1400	MATH 1400
MATH 2200 - Calculus I (4cr) (Q)	MATH 2200	MATH 2200	MATH 2200	MATH 2200	MATH 2200	MATH 2200	MATH 2200
<i>MATH 1405 is a prerequisite to MATH 2200</i>							
PHYS 1110 - General Physics I (4cr) (PN)	PHYS 1110	PHYS 1110	PHYS 1110	PHYS 1110	PHYS 1110	PHYS 1110	PHYS 1110

BLOCK 3: Upper Division Requirements

UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Professional Education Requirements							
Foundations							
EDST 3100 - Teacher as Practitioner (3cr) (C2)	A minimum 2.75 UW cumulative GPA is required for registration in EDST 3100 and EDST 3101. A copy of your valid Wyoming Substitute Teaching Permit must be on file with the College of Education Student Success Center no later than the first day of class.						
EDST 3480 - Diversity & the Politics of Schooling (3cr)							
Practicum							
EDST 3101 - Practicum 3 (2cr) (C2)	Prerequisite: Declared education major, concurrent enrollment or successful completion of EDST 3100 with a C or better, successful completion of COM1 with a C or better, 2.75 cumulative GPA, successful completion of EDST 2450, ITEC 2360, EDEX 2484, and EDST 2550 with a C or better, junior standing, and current State of Wyoming Substitute Teacher Permit.						

BLOCK 3: Upper Division Requirements Continued**Methods**

EDSE 3275 - Subject Matter
Specific Methods I:
Secondary Science
Education (3-6cr) (3cr
required)

EDSE 4275 - Subject Matter
Specific Methods II:
Secondary Science
Education (3-6cr)
(4cr required) (C3)

Residency

Prerequisite: 2.750 cumulative GPA, 2.500 GPA in major content courses, completion of all content. ESS 4970 - Internship in Earth System Science (3-6 Credits) (met through successful completion of Residency in Teaching: EDSE 4500)

EDSE 4500 - Residency in
Teaching (1-16cr)
(12crRequired)

EDSE 4550 - Residency
Applications and
Synthesis (3cr)

Prerequisite: Requires an active Student Teaching placement. And
A grade of "C" or better in EDSE 42XX (secondary content-appropriate methods course)
Corequisite: EDSE 4500

Environmental Systems Science Foundations Requirements

ESS 4950 - Exploring the
Earth System (3cr) (C3)

ESS 4970 - Internship in
Earth Science (1-6cr)

Met through successful completion of Residency in Teaching: EDSE 4500

Upper Division Electives

A variable number of elective courses is required to meet the minimum requirement. Work with your academic advisor to select appropriate elective courses. 13+ credit hours of electives are required to meet the UW minimum program requirement. Students enrolled in the ESSE concurrent major program are highly encouraged to take STAT 2050 or STAT 2070 as an elective course. This concurrent major program meets the 18+ credit hours that ESS requires for a minor.

BLOCK 4: Additional Requirements - Spheres

Other options might be available in some categories.

Anthrosphere: Choose 1 Course:

AMST/ENR 4030 - Ecology
of Knowledge (3cr)

ANTH/ENR 4310 –
Environmental
Anthropology (3cr)

ENR/GEOG/GEOL 4040 -
Conservation of Natural
Resources (3cr)

ENR/HIST 4412 - Global
Environment History (3cr)
(H)

ENR/SOC 3950 -
Environmental
Sociology (3cr)

GEOG/NAIS 3400 -
Traditional Ecological
Knowledge (3cr) (ASD)

GEOL 3650 - Energy for
Society: Addressing the
Energy Grand
Challenge (3cr) (PN)

BLOCK 4: Additional Requirements continued - Spheres continued							
UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Atmosphere: Choose 1 Course:							
ATSC 2100 - Global Warming: The Science of Humankind's Energy Consumption Impacting Climate (3cr)							
ATSC 2200 - Severe and Unusual Weather (3cr)							
ERS 3010 - Air Quality Management (3cr)							
ENR/GEOG/GEOL 3450 - Weather and Climate (3cr)							
Biosphere: Choose 1 Course:							
ENR/ZOO 2450 - Fish and Wildlife Management in the Anthropocene (4cr) (C2)	BIOL 2465			BIOL 2465	BIOL 2465	BIOL 2465	
LIFE 2022 - Animal Biology (4cr)	BIOL 2022	BIOL 2022		BIOL 2022	BIOL 2022		BIOL 2022
LIFE 2023 - Biology of Plants and Fungi (4cr)	BIOL 2023			BIOL 2023	BIOL 2023	BIOL 2023	BIOL 2023
LIFE 3400 - General Ecology (3cr)	BIOL2400		BIOL2400		BIOL2400	BIOL2400	BIOL2400
BIOL 2400 will count as a course requirement but will not count as an upper division course.							
GEOG 4460 - Biogeography (3cr)							
REWM 2000 - Principles of Rangeland Management (3cr)	REWM 2000	REWM 2000	REWM 2000	REWM 2000	REWM 2000	REWM 2000	REWM 2000
REWM 4200 - Reclamation of Drastically Disturbed Lands (3cr)							
REWM 4440 - Applied Fire Ecology (3cr)							

BLOCK 4: Additional Requirements continued - Spheres continued							
UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Biosphere continued							
OR Complete All Three of the Following							
ENR 4010 - Winter Ecology: Skills of the Winter Naturalist (1cr) AND ENR 4011 - Winter Ecology: Snowpack Science and Dynamics (1cr) AND ENR 4012 - Winter Ecology: Wildlife and Plant Adaptations (1cr)							
Lithosphere Environmental Change: Choose 1 Course:							
ENR/SOIL 3130 - Environmental Quality (3cr)							
CE/ENR/CHE 4430 - Green Chemistry and Global Environmental Problems (3cr)							
ESS/GEOG/GEOL 3480 - Environmental Change (3cr) (ASG)							
GEOL 3500 - Global Change: A Geological Perspective (4cr)							
Lithosphere Hydrology & Surface Processes: Choose 1 Course:							
ENR/REWM 4285 - Wildland Hydrology (3cr)							
GEOG 3010 - Geomorphology of Earth’s Dynamic Landscape (3cr)							
GEOL 3400 - Geologic Hazards: A Historical and Scientific Review (4cr)							
REWM 4700 - Wildland Watershed Management (3cr)							
REWM 4710 - Watershed Water Quality Management (3cr)							

BLOCK 5: Additional Requirements - Skills & Tools							
UW Courses	Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northern Wyoming Community College District	Northwest College Wyoming	Western Wyoming Community College
Data Analysis: Choose 1 Course:							
ENR/GEOL 4525 - Environmental Data Analysis (4cr)							
ESS 4001 - Analysis of Nature's Data (3cr)							
GEOL 3250 - Geosciences and Computers (3cr)							
STAT 3050 - Statistical Methods (3cr)							
ZOO 4400 - Population Ecology (3cr)							
GIS/Remote Sensing: Choose 1 Course:							
GIST 1200 - Geospatial Foundations (3cr)		GIST 1200					
GIST 2310 - Intro to Geographic Information Systems (3cr)		GIST 2310		GIST 2310	GIST 2310	GIST 2310	GIST 2310
GIST 2140 - Survey of Remote Sensing Applications (3cr) (PN)		GIST 2140					
GIST/RNEW/PLNT 4130 - Applied Remote Sensing for Agricultural Management (3cr)							

COURSE SUBSTITUTIONS: Block articulations are intended to reflect direct published equivalencies between institutions. 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 2025-2026 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.