

# 2025-2026 Block Transfer Map: Qualifying Transfer Associate Degree from a Wyoming Community College to the University of Wyoming

## Environmental Systems Science, B.S.

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 with a major in Environmental Systems Science 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 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) Requirements**

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 1400 or STAT 2050 <i>Offered at all WyoCC's</i>
PN	Physical and Natural World 1 (3cr)	AECL 1000 or BIOL 1010 <i>Offered at all WyoCC's</i>
PN	Physical and Natural World 2 (3cr)	CHEM 1000 or CHEM 1020 <i>Offered at all WyoCC's</i>
H	Human Culture 1 (3cr)	Satisfied upon completion of qualifying associate degree
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

### **Environmental Systems Science, B.S.**

Environmental Systems Science (ESS) is an interdisciplinary undergraduate degree in environmental science, focusing on the interactions between the various components of Earth and environmental systems.

## BLOCK 2: Haub School Requirements - US Cultures and Communities and Global Awareness

Students earning a B.S. in ESS with their degree awarded from the Haub School must additionally complete 6 credit hours of [Haub School Requirements](#):

ASD	<a href="#">US Cultures and Communities</a> (3cr)
ASG	<a href="#">Global Awareness</a> (3cr)

## BLOCK 3: Lower Division 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.

### Degree Requirements:

- This major requires a minimum of 58 credits (primary) or 52 (concurrent), of which are upper-division credits.
- All undergraduate students in ESS complete their coursework in conjunction with another major or minor.
- Earn a C or better in all courses fulfilling program requirements - including Haub School U.S. Diversity and Global Awareness courses, and degree, major, and/or minor courses.
- Earn 12 credits unique to each program when enrolled in multiple Haub School programs.

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
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### Foundations Courses

#### Intro to Systems Science

ESS 1000 - Wyoming in the Earth System (3cr) (PN)							
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#### Foundation of Biological Sciences (Choose one course):

PLNT 1000 - Agroecology (4cr) (PN)	AECL 1000						
LIFE 1010 - General Biology (4cr) (PN)	BIOL 1010						
ENR 1200 - Environment (4cr) (PN)	ENR 1200	BIOL 1080				BIOL 1080	

#### Foundation of Earth Sciences (Choose one course):

GEOG 1010 - Introduction to Physical Geography (3cr) (PN)	GEOG 1010	GEOG 1010		GEOG 1010			
GEOL 1100 - Physical Geology (4cr) (PN)	GEOL 1100	GEOL 1100	GEOL 1100	GEOL 1100	GEOL 1100	GEOL 1100	GEOL 1100
ENR/GEOL1330 - Water, Dirt, and Earth's Environment (4cr) (PN)	ENR 1330 OR GEOL 1330						

#### Chemistry (Choose one course):

CHEM 1000 - Introductory Chemistry (4cr) (PN)	CHEM 1000						
CHEM 1020 - General Chemistry I (4cr) (PN)	CHEM 1020						

**BLOCK 3: Lower Division Requirements 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
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**Skills & Tools Courses**

**College Algebra**

MATH 1400 - College Algebra (3cr) (Q)	MATH 1400						
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*Note: MATH 1400 is waived for students who transfer in STAT 2050/2070 and CHEM 1000/1020*

**Statistics or Calculus (Choose one course):**

STAT 2050 - Fundamentals of Statistics (4cr) (Q)	STAT 2050						
STAT/SOC 2070 - Introductory Statistics for the Social Sciences (4cr) (Q)	STAT 2070	STAT 2070	STAT 2070		STAT 2070	STAT 2070	STAT 2070
MATH 2200 - Calculus I (4cr) (Q)	MATH 2200						

**BLOCK 4: Spheres Courses**

**15+ Credit Hours of Spheres Courses**

*Courses taken to satisfy one sphere cannot apply toward another.*

**Anthrosphere (Choose one course):**

GEOG/NAIS 3400 - Traditional Ecological Knowledge (3cr) (ASD)							
GEOL 3650 - Energy for Society: Addressing the Energy Grand Challenge (4cr) (PN)							
ENR/SOC 3950 - Environmental Sociology (3cr)							
AMST/ENR 4030 - Ecology of Knowledge (3cr)							
ENR/GEOG/GEOL 4040 - Conservation of Natural Resources (3cr)							
ANTH/ENR 4310 - Environmental Anthropology (3cr)							
ENR/HIST 4412 - Global Environment History (3cr) (H)							
ENR 4570 - Climate Change Responses (Max3cr)							

**Atmosphere (Choose one course):**

ATSC 2000 - Introduction to Meteorology (4cr) (PN)	ATSC 2000	ATSC 2000					
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)							
GEOL 3500 - Global Change: A Geological Perspective (4cr)							
GEOG/GEOL 4441 - Advanced Climate Variability (3cr)							

**BLOCK 4: Spheres Courses 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
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**Biosphere (Choose one course):**

REWM 2000 - Principles of Rangeland Management (3cr)	REWM 2000						
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
ENR/RNEW 2100 - Forest Management (3cr)						REWM 2100	REWM 2100
ENR/ZOO 2450 - Fish and Wildlife Management in the Anthropocene (4cr) (C2)	BIOL 2465			BIOL 2465	BIOL 2465	BIOL 2465	
LIFE 3400 - General Ecology (3cr)	BIOL 2400		BIOL 2400		BIOL 2400	BIOL 2400	BIOL 2400

*BIOL 2400 offered at CC, EWC, NWCCD, NWC & WWCC will satisfy course requirement however will not satisfy University Upper Division requirements.*

REWM 4200 - Reclamation of Drastically Disturbed Lands (3cr)							
REWM 4440 - Applied Fire Ecology (3cr)							
GEOG 4460 - Biogeography (3cr)							
GEOG/GEOL 4470 - Fire Ecology (3cr)							

**Environmental Systems Interactions (Choose one course):**

ESS/GEOG/GEOL 3480 - Environmental Change (3cr) (ASG)							
GEOL 3500 - Global Change: A Geological Perspective (4cr)							
GEOL 3600 - Earth and Mineral Resources (4cr) (PN)							
CE/CHE/ENR 4430 - Green Chemistry and Global Environmental Problems (3cr)							
ENR 4570 - Climate Change Responses (Max3cr)							

**Lithosphere - Hydrology & Surface Processes (Choose one course):**

GEOL 2150 - Geomorphology (4cr)	GEOL 2150					GEOL 2150	
GEOG 3010 - Geomorphology of Earth's Dynamic Landscapes (3cr)							
ENR/REWM 3100 - Principles of Wildland Water Quality (3cr)							
ENR 4285 - Wildland Hydrology (3cr)							
REWM 4285 - Wildland Hydrology (4cr)							
REWM 4700 - Wildland Watershed Management (3cr)							
REWM 4710 - Watershed Water Quality Management (3cr)							

## BLOCK 5: Foundation Courses 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
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### GIST (Choose one course):

*Note: the BS in ESS has a GIS or Remote Sensing certificate built in.*

*Students wishing to receive the GIST cert should take GIST 2310. Those wanting the Remote Sensing cert should take GIST 3140 at UW.*

GIST 2310 - Intro to Geographic Information Systems (4cr)	GIST 1100	GIST 2310		GIST 2310	GIST 2310	GIST 2310	GIST 2310
GIST 3140 - Introduction to Remote Sensing (3cr)							

## BLOCK 6: Skills & Tools Courses

### Data Analysis (Choose one course):

STAT 3050 - Statistical Methods (3cr)							
ESS 4001 - Analysis of Nature's Data (3cr)							
ENR/GEOL 4525 - Environmental Data Analysis (4cr)							

## BLOCK 7: Upper Division Requirements

### Professional Development (1 Credit Min. S/U Grading Only)

ESS 4970 - Internship in Earth System Science (1-6cr)							
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*Satisfactory completion of professional and applied experience required prior to enrollment. No more than 6 total credits of ENR 4970, ESS 4970, or ORTM 4970 can be applied across multiple Haub programs. All prefixes are interchangeable and are accepted for any Haub program.*

### Capstone

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

*18+ Credit Hours in an Approved Minor or Concurrent Major*

*18+ credit hours in an approved\* minor or concurrent major as an area of specialization: Agroecology, Agronomy, Anthropology, Astronomy, Biology, Botany, Chemistry, Environment & Natural Resources, Forest Resources, Geography, Geology, GIS & Remote Sensing, Horticulture, Insect Biology, Land Surveying, Paleoenvironmental Studies, Physics, Plant Protection, Rangeland Ecology & Watershed Management, Reclamation & Restoration Ecology, Secondary Earth Science Education, Soil Science, Statistics, Sustainability, Wildlife & Fisheries Biology & Management, or Zoology*

*\* other options available; subject to advisor approval*

## BLOCK 8: GIS or Remote Sensing Courses

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
<b>GIS or Remote Sensing</b>							
<i>Undergraduate certificates are available in GIS or Remote Sensing. See advisor for information. (Choose one pathway):</i>							
<b>GIS (Take all courses)</b>							
GIST 2200 - Spatial Data Visualization (3cr)			GIST 2200				
GIST 2190 - Introduction to Programming in Geospatial Information Science and Technology (3cr)	GIST 2150	GIST 2190					
<b>OR</b>							
<b>Remote Sensing (Choose six credits):</b>							
GIST 2140 - Survey of Remote Sensing Applications (3cr) (PN)		GIST 2140					
GIST/PLNT/REWM 4130 - Applied Remote Sensing (3cr)							
GIST 4211 - Advanced Remote Sensing (3cr)							
GIST 4410 - UAS Sensors and Platforms (1cr)							
GIST 4420 - UAS Mission Planning (1cr)							
GIST 4430 - UAS Regulations and Safety (1cr)							
GIST 4440 - UAS Ground School and Operations (2cr)							
GIST 4450 - UAS Data Acquisition and Processing (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](mailto:transfer@uwyo.edu) via email.