Cowboy Credit: Environmental Systems Science Pathway
2026-2027 University of Wyoming & Casper College

Cowboy Credit is a planning tool that helps students identify coursework that may align with a UW academic pathway before transferring to the University of Wyoming.

START YOUR PATH
Planning for Environmental Systems Science at UW?
Start with these commonly transferable courses to build your UW-TAG and stay on track in UW's Environmental Systems Science program

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Scientific Foundations
Take these courses before you transfer:

- General Biology
- General Chemistry
- Environmental Science
- Physical Geography or Physical Geology

These courses form the scientific foundation for understanding environmental systems and processes and are typically taken in sequence. They may require placement or prerequisites.

Quantitative Foundations
Build your math and analytical skills early:

- College Algebra (or higher)
- Statistics or Calculus I
- GIS and Remote Sensing

These courses are critical for success in upper-division science coursework.

Applied & Laboratory Science

- Lab-based science courses (biology, chemistry, environmental science)
- Introductory field or applied science courses

These courses enhance your preparation and broaden your understanding of environmental systems and applied science.

General Education
Strong communication skills support scientific collaboration, research, and professional practice in environmental fields.

- English Composition
- Communication (Public Speaking recommended)
- Human Culture
- American & Wyoming government

Every student's path is unique. You don't need to complete all of these courses before transferring—this guide helps you start building a strong foundation, and our team will work with you to make the most of your previous coursework, including AP, IB, CLEP, dual enrollment, and transfer credit.

THE WORLD NEEDS MORE COWBOYS.

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ESS Foundation Coursework	UW Credits	Casper College
ENR/GEOL 1330 Water, Dirt, and Earth's Environment (PN)	4	ENR 1330
LIFE 1010 General Biology (PN)	4	BIOL 1010
CHEM 1020 General Chemistry I (PN)	4	CHEM 1020
ESS 1000 Wyoming in the Earth System (PN)	3	*No direct equivalent (course completed after transfer)*
GEOG 1010 Physical Geography (PN) Or GEOL 1100 Physical Geology (PN)	3 4	GEOG 1010 GEOL 1100

Quantitative Foundations	UW Credits	Casper College
MATH 1400 College Algebra (Q)	3	MATH 1400
MATH 2200 Calculus I (Q) Or STAT 2050 Fundamentals of Statistics (Q)	4	MATH 2200 STAT 2050
GIST 2310 Intro to Geographic Information Systems	4	*No direct equivalent (course completed after transfer)*

Applied / Interdisciplinary Science (Optional)	UW Credits	Casper College
ENR 1200 Environment (PN)	4	ENR 1200
PLNT 1000 Agroecology (PN)	4	AECL 1000
REWM 2000 Principles of Rangeland Management	3	REWM 2000

General Education	UW Credits	Casper College
ENGL 1010 College Composition and Rhetoric (C1)	3	ENGL 1010
COMM 2010 Public Speaking (C2)	3	COMM 2010
SOC 1000 Sociological Principles (H)	3	SOC 1000
POLS 1000 American and Wyoming Government	3	POLS 1000

Cowboy Credit is a planning tool designed to support transfer and pathway exploration. Final course equivalencies are determined after admission and receipt of official transcripts.

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