

# 2025-2026 Block Transfer Map: Qualifying Transfer Associate Degree from a Wyoming Community College to the University of Wyoming Biology, Ecology and Evolution Concentration, 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 in Biology, Ecology and Evolution Concentration 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) 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 be taken at UW                                      |
| Q  | Quantitative Reasoning (3cr)                                      | MATH 1400                                                |
| PN | Physical and Natural World 1 (3cr)                                | LIFE 1010                                                |
| PN | Physical and Natural World 2 (3cr)                                | PHYS 1100                                                |
| 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 |

## Articulation Biology, Ecology and Evolution Concentration, B.S.

Students will receive the academic training to become park naturalists, environmental consultants, restoration ecologists, natural resource managers, conservation scientists, environmental educators, and research technicians in academic or government agencies. of physical and life sciences and mathematics while providing flexibility and student choice.

## BLOCK 2: 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

### Biology, Ecology and Evolution Concentration Requirements:

- The Department of Botany offers the Ecology and Evolution Concentration for Biology majors
- To fulfill the requirements of the concentration, students will select five courses that meet a minimum of 15 credit hours in addition to what is required for the Biology Major. These will be selected from a variety of upper-division (3000-4000) courses that satisfy their individual interests

| 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>Biology Major Requirements</b>                                                                                  |                              |                              |                              |                                  |                                             |                              |                                   |
| LIFE 1010 - General Biology (4cr) (PN)                                                                             | BIOL 1010                    | BIOL 1010                    | BIOL 1010                    | BIOL 1010                        | BIOL 1010                                   | BIOL 1010                    | BIOL 1010                         |
| MATH 1400 - College Algebra (3cr) (Q)                                                                              | MATH 1400                    | MATH 1400                    | MATH 1400                    | MATH 1400                        | MATH 1400                                   | MATH 1400                    | MATH 1400                         |
| MATH 1405 - Trigonometry (3cr) (Q)                                                                                 | MATH 1405                    | MATH 1405                    | MATH 1405                    | MATH 1405                        | MATH 1405                                   | MATH 1405                    | MATH 1405                         |
| MATH 2200 - Calculus I (4cr) (Q)                                                                                   | MATH 2200                    | MATH 2200                    | MATH 2200                    | MATH 2200                        | MATH 2200                                   | MATH 2200                    | MATH 2200                         |
| CHEM 1020 - General Chemistry I (4cr) (PN)<br><b>OR</b><br>CHEM 1000 - Introductory Chemistry (4cr) (PN)           | CHEM 1020<br>OR<br>CHEM 1000 | CHEM 1020<br>OR<br>CHEM 1000 | CHEM 1020<br>OR<br>CHEM 1000 | CHEM 1020<br>OR<br>CHEM 1000     | CHEM 1020<br>OR<br>CHEM 1000                | CHEM 1020<br>OR<br>CHEM 1000 | CHEM 1020<br>OR<br>CHEM 1000      |
| CHEM 2300 - Introductory Organic Chemistry (4cr)                                                                   | CHEM 2300                    | CHEM 2300                    | CHEM 2300                    |                                  | CHEM 2300                                   | CHEM 2300                    | CHEM 2300                         |
| PHYS 1110 - General Physics I (4cr) (PN)                                                                           | PHYS 1110                    | PHYS 1110                    | PHYS 1110                    | PHYS 1110                        | PHYS 1110                                   | PHYS 1110                    | PHYS 1110                         |
| PHYS 1120 - General Physics II (4cr) (PN)                                                                          | PHYS 1120                    | PHYS 1120                    | PHYS 1120                    | PHYS 1120                        | PHYS 1120                                   | PHYS 1120                    | PHYS 1120                         |
| LIFE 2100 - Intro Research and Analysis (4cr) (Q)<br><b>OR</b><br>STAT 2050 - Fundamentals of Statistics (4cr) (Q) | STAT 2050                    | STAT 2050                    | STAT 2050                    | STAT 2050                        | STAT 2050                                   | STAT 2050                    | STAT 2050                         |
| <b>Foundational Biology - Two of the Following</b>                                                                 |                              |                              |                              |                                  |                                             |                              |                                   |
| 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/MICR/MOLB 2021 - General Microbiology (4cr)                                                                   | MOLB 2210                    | MOLB 2210                    | MOLB 2210                    |                                  | MOLB 2210                                   | MOLB 2210                    | MOLB 2210                         |

**BLOCK 3: Data Science course Requirements select 1 of the following**

| 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 |
|------------------------------------------------------------------------------------------------|----------------|-------------------------|-------------------------|----------------------------------|---------------------------------------------|---------------------------|-----------------------------------|
| COSC 1010 - Computational Thinking and Programming (3cr)                                       | COSC 1010      | COSC 1010               | COSC 1010               | COSC 1010                        | COSC 1010                                   | COSC 1010                 | COSC 1010                         |
| COSC 1015 - Introduction to Programming for Data Science (3cr) (Q)                             |                |                         |                         |                                  |                                             |                           |                                   |
| COSC 1100 - Computer Science Principles and Practice (3cr)                                     |                |                         |                         |                                  |                                             |                           | COSC 1100                         |
| COSC 1200 - Computer Information Systems (3cr)                                                 | CMAP 1200      | CMAP 1200               | CMAP 1200               | CMAP 1200                        |                                             | CMAP 1200                 | CMAP 1200                         |
| GIST 1200 - Geospatial Foundations (3cr)                                                       |                | GIST 1200               |                         |                                  |                                             |                           |                                   |
| GIST 2140 - Survey of Remote Sensing Applications (3cr) (PN)                                   |                | GIST 2140               |                         |                                  |                                             |                           |                                   |
| GIST 2190 - Introduction to Programming in Geospatial Information Science and Technology (3cr) | GIST 2150      | GIST 2190               |                         |                                  |                                             |                           |                                   |
| GIST 2200 - Spatial Data Visualization (3cr)                                                   |                |                         | GIST 2200               |                                  |                                             |                           |                                   |
| GIST 2310 - INTRO to Geographic Information Systems (4cr)                                      |                | GIST 2310               |                         | GIST 2310                        | GIST 2310                                   | GIST 2310                 | GIST 2310                         |
| GIST 3140 - Introduction to Remote Sensing (3cr) (Q)                                           |                |                         |                         |                                  |                                             |                           |                                   |
| GIST 4211 - Advanced Remote Sensing (3cr)                                                      |                |                         |                         |                                  |                                             |                           |                                   |

**BLOCK 4: Upper Division Requirements**

| Biology Major Upper Division Courses                                                                                                                                                                  |                       |  |           |  |           |           |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|-----------|--|-----------|-----------|-----------|
| BOT 4444 - Biology Capstone (3cr) (C3)                                                                                                                                                                | OR Eligible C3 Course |  |           |  |           |           |           |
| LIFE 3050 - Genetics (4cr)                                                                                                                                                                            |                       |  |           |  |           |           |           |
| LIFE 3400 - General Ecology (3cr)                                                                                                                                                                     | BIOL 2400             |  | BIOL 2400 |  | BIOL 2400 | BIOL 2400 | BIOL 2400 |
| <i>Note that the BIOL 2400 will satisfy the course requirement but will not satisfy an upper division requirement</i>                                                                                 |                       |  |           |  |           |           |           |
| LIFE 3500 - Evolutionary Biology (3cr)                                                                                                                                                                |                       |  |           |  |           |           |           |
| <i>Students who concentrate in Ecology and Evolution should plan to take LIFE3500 - Evolutionary Biology in their third year to be able to take an additional evolution course before graduating.</i> |                       |  |           |  |           |           |           |
| LIFE 3600 - Cell Biology (4cr)                                                                                                                                                                        |                       |  |           |  |           |           |           |
| MOLB 3610 - Principles of Biochemistry (4cr)                                                                                                                                                          |                       |  |           |  |           |           |           |

**BLOCK 5: Concentration Requirements****Biology, Ecology and Evolution Concentration Upper Division Courses - Potential Courses**

Students must select

1. one course in organismal biology (A),
2. one course in ecology (B),
3. one course in evolution (C),
4. any one additional course from these three categories,
5. and one fourth-year capstone course (D).
6. All courses listed below will count toward this concentration. However, there are many other excellent courses offered across campus that are relevant to this concentration. Students can obtain approval to take other courses that are not included on the list below to satisfy the requirements of the concentration.

**A. Organismal Biology**

|                                                             |  |
|-------------------------------------------------------------|--|
| BOT 3600 - Plant Diversity and Systematics (4cr)            |  |
| BOT 4360 - Mushrooms of the Rocky Mountains (4cr)           |  |
| BOT 4395 - Symbiosis of Forest Ecosystems(3cr)              |  |
| MICR/MOLB/SOIL 4540 - Microbial Diversity and Ecology (4cr) |  |
| ZOO 4350 - Ornithology (3cr)                                |  |
| ZOO 4370 - Mammalogy (3cr)                                  |  |
| ZOO 4540 - Invertebrate Zoology (4cr)                       |  |

**B. Ecology**

|                                                 |  |
|-------------------------------------------------|--|
| BOT 4700 - Vegetation Ecology (4cr)             |  |
| ZOO 4415 - Behavioral Ecology (3cr)             |  |
| ZOO 4650 - Tropical Field Ecology Ecuador (4cr) |  |
| BOT/GEOL 4280 - Paleobotany (4cr)               |  |
| BOT 4200 - Plant-Microbe Interactions (3cr)     |  |
| BOT/ZOO 4235 - Marine Biology (3cr)             |  |
| BOT/ESS 4780 - Biogeochemistry (3cr)            |  |

**C. Evolution**

|                                                                       |  |
|-----------------------------------------------------------------------|--|
| BOT 4790 - Special Topics in Ecology (1-3cr) (Macroevolution)         |  |
| BOT 4790 - Special Topics in Ecology (3cr) (Evolution of development) |  |
| BOT 4790 - Special Topics in Ecology (3cr) (Evolution seminar)        |  |
| BOT/ECOL/ZOO 5060 - Fundamental Concepts in Evolution (3cr)           |  |

**D. Senior Capstone Course**

|                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------|--|
| BOT 4444 - Biology Capstone (3cr) (C3)<br><b>OR</b><br>BOT 4965 - Undergraduate Research in Botany (1-10cr) |  |
|-------------------------------------------------------------------------------------------------------------|--|

**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.