

**ARTICULATION AGREEMENT FOR  
AS BIOLOGY AND  
BS WILDLIFE & FISHERIES BIOLOGY & MANAGEMENT  
BETWEEN CENTRAL WYOMING COLLEGE  
AND THE UNIVERSITY OF WYOMING**

**OVERVIEW:**

This formal program articulation agreement is made and entered into by Central Wyoming College, hereinafter referred to as CWC, and University of Wyoming, hereinafter referred to as UW. By this agreement CWC and UW express a shared commitment to increasing opportunities for student access to and success in higher education.

**PURPOSE:**

This agreement provides students who have completed the **Associate of Science** degree with articulated coursework in the area of Wildlife & Fisheries Biology Management, the opportunity to complete a **Bachelor of Science in Wildlife and Fisheries Biology & Management** at UW. Any CWC student who has earned an Associate of Science degree with coursework that adheres to the guidelines within this agreement is guaranteed that UW will accept designated major related credits and that all general education credits will apply to the Bachelor of Science degrees in a manner consistent with the treatment of native UW students and given junior status in the major.

**CONDITIONS OF TRANSFER:**

**Section I: Admissions and Matriculation**

CWC students maintaining continuous enrollment under this agreement will be afforded the same treatment and protection as native UW Wildlife and Fisheries Biology & Management, College of Arts and Sciences students enrolled under a specific catalog.

Criteria for acceptance into College of Arts and Sciences will be consistent with the criteria outlined in the institutional articulation agreement between CWC and UW.

CWC, upon request of students, will provide verification of completed courses to UW through its Office of Registration and Records.

Transfer students from CWC will have access to financial aid, scholarships, and student services on the same basis as native students.

UW will apply the same academic progress and graduation standards to CWC transfer students as those applicable to native UW students.

**Section II: Program Plan**

While a course-by-course equivalence was used in the development of this plan, this agreement presumes that the general education core requirements at CWC meet general education requirements at UW. Students falling under this program articulation agreement will be responsible for successfully completing the additional prescribed requirements. *42h, of the minimum 120h required for a BS degree, **MUST** be at the upper division level*

Table 1. Course-by-course transfer articulation (CWC and UW)

General Education requirements at CWC and the University Studies Program at UW transfer as a block articulation between CWC and UW.

| CWC Course |                              |         | UW Equivalent Course |                              |         |
|------------|------------------------------|---------|----------------------|------------------------------|---------|
| Course     | Course Title                 | Credits | Course               | Course Title                 | Credits |
| BIOL 1010  | General Biology              | 4       | LIFE 1010            | General Biology              | 4       |
| BIOL 2020  | General Biology II           | 4       | LIFE 2022            | Animal Biology               | 4       |
| BIOL 2023  | Biology of Plants and Fungi  | 4       | LIFE 2023            | Biology of Plants and Fungi  | 4       |
| CHEM 1020  | General Chemistry I          | 4       | CHEM 1020            | General Chemistry I          | 4       |
| CHEM 1030  | General Chemistry II         | 4       | CHEM 1030            | General Chemistry II         | 4       |
| COSC 1200  | Computer Information Systems | 3       | COSC1200             | Computer Information Systems | 3       |
| MATH 1400  | Pre-Calculus Algebra         | 4       | MATH 1400            | College Algebra              | 3       |
| GEOL 1100  | Physical Geology             | 4       | GEOL 1100            | Physical Geology             | 4       |
| MATH 1405  | Trigonometry                 | 3       | MATH 1405            | Trigonometry                 | 3       |
| MATH 2200  | Calculus I                   | 4       | MATH 2200            | Calculus I                   | 4       |
| PHYS 1110  | General Physics I            | 4       | PHYS 1110            | General Physics I            | 4       |
| PHYS 1120  | General Physics II           | 4       | PHYS 1120            | General Physics II           | 4       |
| PHYS 1310  | College Physics I            | 4       | PHYS 1310            | College Physics I            | 4       |
| PHYS 1320  | College Physics II           | 4       | PHYS 1320            | College Physics II           | 4       |
| STAT 2050  | Fundamentals of Statistics   | 4       | STAT 2050            | Fundamentals of Statistics   | 4       |

# UNIVERSITY OF WYOMING COURSEWORK TO COMPLETE BS IN WFBM

## Courses needed for ALL Wildlife and Fisheries Management majors

| Course    | Course Title   | Credits |
|-----------|--|---------|
| LIFE 3400 | General Ecology  | 3       |
| LIFE 3410 | Field Ecology  | 2       |
| LIFE 3050 | Genetics   | 4       |
| ZOO 4400  | Population Ecology   | 3       |
| ZOO 4100  | Communication in Biological Sciences                           | 3       |
| ZOO 4190  | Comparative Physiology   | 4       |
| ZOO 4970  | Internship   | 1       |
|           | ASD and ASG courses (College of Arts and Sciences requirement) | 6       |

## Courses needed for major in Wildlife and Fisheries Management Aquatic option<sup>1</sup>

| Course                                    | Course Title   | Credits |
|---|--|---------|
| <i>A minimum 23 credit hours required</i> |  |         |
| <i>Required</i>                           |  |         |
| ZOO 4440                                  | Limnology  | 3       |
| ZOO 4430                                  | Limnology Lab  | 2       |
| ZOO 4330                                  | Ichthyology  | 3       |
| <i>Recommended</i>                        |  |         |
| ZOO 4310                                  | Fisheries Management – <i>required for certification</i>   | 3       |
| CHEM 2230                                 | Quantitative Analysis                                      | 4       |
| ZOO 4540                                  | Invertebrate Zoology                                       | 4       |
|   | 3000/4000-level Terrestrial Option Upper Division Elective | 3       |

## Courses needed for major in Wildlife and Fisheries Management Terrestrial option<sup>1</sup>

| Course                                    | Course Title  | Credits |
|---|---|---------|
| <i>A minimum 23 credit hours required</i> |   |         |
| <i>Required</i>                           |   |         |
| ZOO 4300                                  | Wildlife Ecology and Management   | 5       |
| BOT 4700                                  | Vegetation Ecology  | 4       |
| <i>Recommended</i>                        |   |         |
| ZOO 4350                                  | Ornithology – <i>required for certification</i>   | 3       |
| ZOO 4370                                  | Mammalogy – <i>required for certification</i>   | 3       |
| ZOO/BOT 4420                              | Conservation Biology  | 3       |
|   | 3000/4000-level Aquatic Option Upper Division Elective                                    | 3       |
|   | BOT/REWM electives (any course). REWM 2000 meets the second course requirement for degree | 3       |

|   |   |
|---|---|
| <p><b>For certification in either the Terrestrial or Aquatic Options, students <i>must</i> take 6 hours in courses that consider 'Human Dimensions'.</b></p> <p>ENR 2000 Environment &amp; Society (3), ENR/POLS 4051 Environmental Politics (3), ENR 3000 Approaches to ENR Problem Solving (3), ENR 4550 Negotiation Analysis (3), ENR/AGEC 3750 Natural Resource Econ (3), ENR 4750 Environmental Law &amp; Policy (3), ENR 4040 Conservation of Natural Resources (3), ENR 4900 Environment &amp; Natural Resource Policy Practice (3), ENR 3900 Seminar Environment &amp; Natural Resources (3), POLS 4052 Federal Land Policy (3)</p> | 6 |
|---|---|

*Specific grade requirements are detailed in the College-UW 2+2 templates*

<sup>1</sup> Students interested in being certified by The Wildlife Society or The American Fisheries Society **MUST** consult their UW advisor for more information.

# AS Biology and BS WFBM

Central Wyoming College

## FRESHMAN

| Fall Semester |                            | Hrs          | Spring Semester |                                  | Hrs       |
|---------------|----------------------------|--------------|-----------------|----------------------------------|-----------|
| Dept #        | Course Title               | #            | Dept #          | Course Title                     | #         |
| BIOL          | 1010 General Biology       | 4            | BIOL            | 2020 General Biology II          | 4         |
| CHEM          | 1020 General Chemistry I   | 4            | CHEM            | 1030 General Chemistry II        | 4         |
| MATH          | 1400 Pre-Calculus Algebra  | 4            | MATH            | 1405 Trigonometry                | 3         |
| ENGL          | 1010 English Composition I | 3            | ENGL            | 1020 English Composition II      | 3         |
| UNST          | 1005 Freshman Seminar      | 1            | FIN             | 1001 Personal Financial Planning | 1         |
|               |                            | <b>TOTAL</b> |                 |                                  | <b>16</b> |
|               |                            |              |                 | <b>TOTAL</b>                     | <b>15</b> |

## CENTRAL Wyoming COLLEGE

## SOPHOMORE

| Fall Semester |                                  | Hrs          | Spring Semester |   | Hrs       |
|---------------|----------------------------------|--------------|-----------------|---|-----------|
| Dept #        | Course Title                     | #            | Dept #          | Course Title                              | #         |
| PHYS          | 1110 Physics I <b>OR</b>         | 4            | STAT            | 2050 Fundamentals of Statistics <b>OR</b> | 4         |
| PHYS          | 1310 College Physics I <b>OR</b> |              | PHYS            | 1120 Physics II <b>OR</b>                 |           |
| GEOL          | 1100 Physical Geology            |              | PHYS            | 1320 College Physics II                   |           |
| MATH          | 2200 Calculus I                  | 5            |                 | Co-Curricular General Education           | 2         |
| ORAL          | Public Speaking                  | 3            | HUM             | Humanities Elective                       | 3         |
| SOC           | Social Science                   | 3            | POLS            | 1000 American & Wyoming Government        | 3         |
| WELL          | Health & Wellness                | 1            | ARTS            | Arts Elective                             | 3         |
| PEAC          | PE Activity                      | 1            |                 |   |           |
|               |                                  | <b>TOTAL</b> |                 |   | <b>17</b> |
|               |                                  |              |                 | <b>TOTAL</b>                              | <b>15</b> |
|               |                                  |              |                 | <b>Total Degree Hours</b>                 | <b>63</b> |

### Transfer Recommendations and Notes:

1. Students are **strongly** encouraged to take *ART, SOC & HUM Electives* that correspond to the College of Arts & Sciences *Diversity (ASD)* and *Global Studies (ASG)* electives or else they will have to take ASD & ASGs at UW. A list of ASD & ASG courses that transfer is available here ([https://wyossb.uwyo.edu/bnrprod/bwckytfc.p\\_display\\_transfer\\_catalog](https://wyossb.uwyo.edu/bnrprod/bwckytfc.p_display_transfer_catalog)). Courses that are either U3D or U3G meet the ASD and ASG, respectively. One suggested course is ANTH1200 Intro to Cultural Anthropology, which meets the ASG requirement and ENGL 2340 American Indian Literature meets the ASD requirement.

2. A minimum grade of C is required for BIOL1010, BIOL2020, MATH1400, MATH1405.

# AS WFBM and BS WFBM with Terrestrial option

University of Wyoming

## JUNIOR

| Fall Semester |  | Hrs       | Spring Semester |   | Hrs       |
|---------------|--|-----------|-----------------|---|-----------|
| Dept #        | Course Title                           | #         | Dept #          | Course Title                                  | #         |
| LIFE          | 2023 Plant/Fungal Biology              | 4         | ZOO             | 2450 Principles of Fish & Wildlife            | 3         |
| COSC          | 1200 Comp Info Sys                     | 3         | ZOO             | 4350 Ornithology                              | 3         |
| LIFE          | 3400 General Ecology                   | 3         | LIFE            | 3050 Genetics                                 | 4         |
| LIFE          | 3410 Field Ecology                     | 2         |                 | Aquatic Biology Upper Elective <sup>3,5</sup> | 3         |
| ZOO           | 4420 Conservation Biology <sup>3</sup> | 3         |                 | Upper Elective <sup>6</sup>                   | 2         |
| <b>TOTAL</b>  |  | <b>15</b> | <b>TOTAL</b>    |   | <b>15</b> |

TOTAL

15



## SENIOR

| Fall Semester               |                                      | Hrs       | Spring Semester |  | Hrs        |
|-----------------------------|--------------------------------------|-----------|-----------------|--|------------|
| Dept #                      | Course Title                         | #         | Dept #          | Course Title   | #          |
| ZOO                         | 4300 Wildlife Ecol. Mgt <sup>3</sup> | 5         | ZOO             | 4400 Population Ecology <sup>3</sup>                   | 3          |
| ZOO                         | 4370 Mammalogy <sup>3</sup>          | 3         | ZOO             | 4100 Communication in Biological Sciences <sup>4</sup> | 3          |
| BOT                         | 4700 Vegetation Ecology <sup>3</sup> | 4         | ZOO             | 4190 Comparative Physiology <sup>3</sup>               | 4          |
| ZOO                         | 4970 Internship                      | 1         | BOT/REWM        | any 2 courses <sup>3,6</sup>                           | 5          |
|                             | ASD or ASG (A&S Core)                | 3         |                 |  |            |
| <b>TOTAL</b>                |                                      | <b>16</b> | <b>TOTAL</b>    |  | <b>15</b>  |
| <b>Total Degree Hours</b>   |                                      |           |                 |  | <b>124</b> |
| <b>Upper Division Hours</b> |                                      |           |                 |  | <b>43</b>  |

**Transfer Recommendations and Notes:**

1. *Students interested in being certified by The Wildlife Society MUST consult their advisor for more information. Additional courses may be required*
2. Time has been allocated for one of the two D&Gs. If an ASG or ASD is not met at CWC then an additional 3h is required
3. A minimum of 30h must be at C or better for these courses.
4. A C is required
5. *Aquatic electives:* ZOO4330 Ichthyology, ZOO4440 Limnology, ZOO4310 Fisheries Management, ZOO4540 Invertebrate Zoology
6. *Electives:* These should be decided in consultation with your advisor.

# AS WFBM and BS WFBM with Aquatic option

University of Wyoming

## JUNIOR

| Fall Semester |                                   | Hrs | Spring Semester |   | Hrs              |
|---------------|-----------------------------------|-----|-----------------|---|------------------|
| Dept #        | Course Title                      | #   | Dept #          | Course Title                            | #                |
| COSC          | 1200 Comp Info Sys                | 3   | ZOO             | 2450 Principles of Fish & Wildlife      | 3                |
| LIFE          | 3400 General Ecology <sup>3</sup> | 3   | ZOO             | 4330 Ichthyology <sup>3</sup>           | 3                |
| LIFE          | 3410 Field Ecology <sup>3</sup>   | 2   | LIFE            | 3050 Genetics                           | 4                |
| ZOO           | 4440 Limnology <sup>3</sup>       | 3   |                 | Terrestrial Upper Elective <sup>5</sup> | 3                |
| ZOO           | 4430 Limnology Lab <sup>3</sup>   | 2   |                 | Upper Elective <sup>6</sup>             | 4                |
| <b>TOTAL</b>  |                                   |     |                 |   | <b><u>13</u></b> |
|               |                                   |     |                 | <b>TOTAL</b>                            | <b><u>17</u></b> |



## SENIOR

| Fall Semester |  | Hrs | Spring Semester |  | Hrs               |
|---------------|--|-----|-----------------|--|-------------------|
| Dept #        | Course Title                                 | #   | Dept #          | Course Title   | #                 |
| ZOO           | 4310 Fisheries Management <sup>3</sup>       | 3   | ZOO             | 4400 Population Ecology <sup>3</sup>                   | 3                 |
| ZOO           | 4970 Internship                              | 1   | ZOO             | 4100 Communication in Biological Sciences <sup>4</sup> | 3                 |
|               | Upper Elective <sup>6</sup>                  | 3   | ZOO             | 4190 Comparative Physiology <sup>3</sup>               | 4                 |
|               | Aquatic option specialty course <sup>3</sup> | 4   |                 | Aquatic option specialty course <sup>3</sup>           | 3                 |
|               | ASD or ASG (A&S Core)                        | 3   |                 |  |                   |
| <b>TOTAL</b>  |  |     |                 |  | <b><u>14</u></b>  |
|               |  |     |                 | <b>TOTAL</b>   | <b><u>13</u></b>  |
|               |  |     |                 | <b>Total Degree Hours</b>                              | <b><u>120</u></b> |
|               |  |     |                 | <b>Upper Division Hours</b>                            | <b><u>43</u></b>  |

**Transfer Recommendations and Notes:**

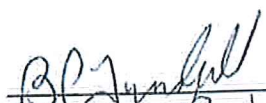
1. **Students interested in being certified by The American Fisheries Society MUST consult their advisor for more information.**
2. Time has been allocated for one of the two D&Gs. If the G or D is not met at NWC then an additional 3h is required
3. A minimum of 30h must be at C or better for these courses.
4. A C is required
5. **Terrestrial electives:** BOT4700 Vegetation Ecology, ZOO4300 Wildlife Ecology & Management, ZOO4350 Ornithology, ZOO4370 Mammalogy
6. **Electives:** These should be decided in consultation with your advisor. For the *Aquatic* alignment, possible courses include REWM4285 Wildland Hydrology, REWM4700, Wildland Watershed Management, GEOG4450 Fluvial Geomorphology, ZOO4540 Invertebrate Zoology. There are also various seminars available.

**TERMS of AGREEMENT:**

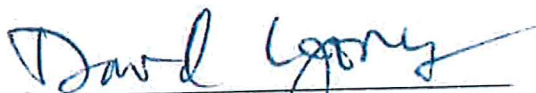
This agreement is made and entered into in the academic year 2015-2016 and remains in force unless a new articulation agreement is signed by all parties. The agreement is subject to annual review to assure currency with the respective degree requirements, and may be amended at any time via written request by either CWC or UW. Should either party desire to discontinue this agreement, advance notification of one year will be required.

**SIGNATURES:**


Central Wyoming College and University of Wyoming hereby enter into this program articulation agreement leading from the Associate of Science degree with articulated coursework in Bachelor of Science in Wildlife and Fisheries Management by the affixing of signatures of the academic officers of both institutions.

  
\_\_\_\_\_  
Ron Granger / Brad Tynndall  
Vice President for Academic Affairs  
Central Wyoming College

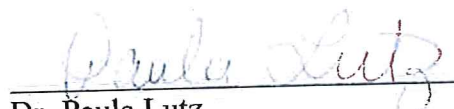
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Dr. David Jones  
Vice President for Academic Affairs  
University of Wyoming

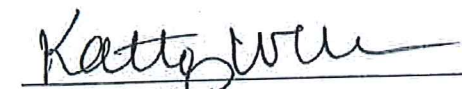
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Tara Womack  
Science Department Chair  
Central Wyoming College

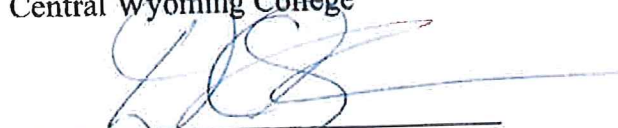
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\_\_\_\_\_  
Dr. Paula Lutz  
Dean, College of Arts & Sciences  
University of Wyoming

10/5/15  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Dr. Kathy Wells  
Dean of Health & Sciences  
Central Wyoming College

10-21-15  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Dr. Donal Skinner  
Head, Department of Zoology and Physiology  
University of Wyoming

10/5/15  
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Date