

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

OVERVIEW:

This formal program articulation agreement is made and entered into by Laramie County Community College, hereinafter referred to as LCCC, and University of Wyoming, hereinafter referred to as UW. By this agreement LCCC 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 Natural Sciences: Wildlife Biology, the opportunity to complete a **Bachelor of Science in Wildlife and Fisheries Management** at UW. Any LCCC 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

LCCC students maintaining continuous enrollment under this agreement will be afforded the same treatment and protection as native UW Wildlife and Fisheries 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 LCCC and UW.

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

Transfer students from LCCC 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 LCCC 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 LCCC 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 (LCCC and UW)

LCCC Course			UW Equivalent Course		
USP					
COLS 1000	Intro to College Success	3	USP FYS	First Year Seminar	3
CO/M 1010	Introduction to Public Speaking	3	COJO 1010	Public Speaking USP 2015 COM2	3
	Humanities Elective	3	USP H	USP 2015 H	3
	Social Science Elective	3	USP H	USP 2015H	3
POLS 1000	American & Wyoming Government	3	USP V	American & Wyoming Government	3
ECON 1200	Economics, Law, and Government	3		Economics, Law, and Government	3
HIST 1211	U.S. History to 1865	3		U.S. History to 1865	3
HIST 1221	U.S. History from 1865	3		U.S. History from 1865	3
HIST 1251	Wyoming History	3		History of Wyoming	3

LCCC Course			UW Equivalent Course		
Course	Course Title	Credits	Course	Course Title	Credits
AECL 2010	The Ecological Web: Soils	4	SOIL 2010	Introduction to Soil Science	4
BIOL 1010	General Biology	4	LIFE 1010	General Biology	4
BIOL 2022	Animal Biology	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
ENGL 1010	English I: Composition	3	ENGL 1010	College Comp. & Rhetoric	3
GEOL 1100	Physical Geology	4	GEOL 1100	Physical Geology	4
MATH 1400	College Algebra	3	MATH 1400	College Algebra	3
MATH 1405	Pre-Calculus 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
STAT 2050	Fundamentals of Statistics	4	STAT 2050	Fundamentals of Statistics	4
ZOO 2450	Wildlife Management	3	ZOO 2450	Principles of Fish and Wildlife Management	3

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 option¹

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 -- required for certification	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 option¹

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 -- required for certification	3
ZOO 4370	Mammalogy -- required for certification	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><i>For certification in either the Terrestrial or Aquatic Options, students must take 6 hours in courses that consider 'Human Dimensions'.</i></p> <p>ENR 2000 Environment & Society (3), ENR/POLS 4051 Environmental Politics (3), ENR 3000 Approaches to ENR Problem Solving (3), ENR 4550 Negotiation Analysis (3), ENR/JGEC 3750 Natural Resource Econ (3), ENR 4750 Environmental Law & Policy (3), ENR 4040 Conservation of Natural Resources (3), ENR 4900 Environment & Natural Resource Policy Practice (3), ENR 3900 Seminar Environment & Natural Resources (3), POLS 4052 Federal Land Policy (3)</p>	6
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Specific grade requirements are detailed in the College-UW 2+2 templates

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

Natural Sciences — Wildlife Biology, Associates of Science

Laramie County Community College

FRESHMAN

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
BIOL	1010	General Biology ³	4	BIOL	2022	Animal Biology ³	4
CHEM	1020	General Chemistry I	4	CHEM	1030	General Chemistry II	4
MATH	1400	College Algebra ³ OR	3	MATH	1405	Pre-Calculus Trigonometry ³	3
MATH	1401	Pre-Calculus Algebra ³	3	ENGL	1010	English I: Composition	3
COLS	1000	College Success	3				
			TOTAL				TOTAL
			14				14



SOPHOMORE

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
BIOL	2023	Biology of Plant & Fungi ³	4	STAT	2050	Fundamentals of Statistics	4
MATH	2200	Calculus I ⁴	4	ZOO	2450	Wildlife Management	3
GEOL or	1100 or	Physical Geology OR	4	COSC	1200	Computer Information Systems	3
PHYS or	1110 or	General Physics I OR	4			Aesthetic Analysis (Humanities) ¹	3
AECL	2010	The Ecological Web: Soils	3			Wyoming State Requirement ²	3
CO/M	1010	Public Speaking	3				
		Cultural Awareness (Social Sciences) ¹	3				
			TOTAL				TOTAL
			18				16
						Total Degree Hours	62

Transfer Recommendations and Notes:

1. Students are strongly encouraged to take a Cultural Awareness or Aesthetic Analysis course that corresponds to the College of Arts & Sciences Diversity (D) and Global Studies (G) electives or else they will have to take D & Gs at UW. A list of D & G courses that transfer is available here (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.
2. Courses that meet the *Wyoming State Requirement* include: U.S. to 1865 (HIST1211), U.S. from 1865 (HIST1221) Wyoming History (HIST1251), Economics, Law & Government (ECON1200), or American & Wyoming Government (POLS1000). Wyoming Government (POLS1100) will also meet *Wyoming State Requirement* but 2 additional credits will be needed to meet total degree credits.
3. A minimum grade of C is required for BIOL1010, BIOL2022, BIOL2023, MATH1400, MATH1405
4. This course is part of the "minimum of 30h at C or better list" for the whole BS degree (see below)

Wildlife & Fisheries Biology & Management (Terrestrial), Bachelors of Science

University of Wyoming

JUNIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
LIFE	3400	General Ecology ³	3	ZOO	4350	Ornithology ³	3
LIFE	3410	Field Ecology ³	2	LIFE	3050	Genetics ³	4
ENR/BOT	4040	Conservation Nat Resources ³	3			Aquatic Biology Elective ^{3,6}	3
ZOO	4420	Conservation Biology ³	3			ASD or ASG (A&S Core)	3
		Upper or Lower Division Elective ⁷	3				
		TOTAL	14			TOTAL	13



SENIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
ZOO	4300	Wildlife Ecol. Mgt ³	5	ZOO	4400	Population Ecology ³	3
ZOO	4370	Mammalogy ³	3	ZOO	4100	Communication in Biological Sciences ⁵	3
BOT	4700	Vegetation Ecology ³	4	ZOO	4190	Comparative Physiology ³	4
ZOO	4970	Internship	1	BOT/REWM		any 2 courses ³	5
		ASD or ASG (A&S Core)	3				
		TOTAL	16			TOTAL	15
						Total Degree Hours	120
						Upper Division Hours	44

Transfer Recommendations and Notes:

1. Students interested in being certified by The Wildlife Society **MUST** consult their advisor for more information.
2. Time has been allocated for the two D&Gs.
3. A minimum of 30h must be at C or better for these courses.
4. Students can take the 2 courses in BOT/REWM at either Upper or Lower Division level but if taken at the Upper level will count towards the 48 Upper Division Hours requirement, reducing the number of separate "Upper Level Courses" needed.
5. A C is required
6. **Aquatic electives:** CHEM2230 Quantitative Analysis, ZOO4330 Ichthyology, ZOO4440 Limnology, ZOO4310 Fisheries Management, ZOO4540 Invertebrate Zoology
7. **Upper electives:** These should be decided in consultation with your advisor.

Wildlife & Fisheries Biology & Management (Aquatic), Bachelors of Science

University of Wyoming

JUNIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title	#	#	Dept #	Course Title	#	#
LIFE	3400 General Ecology ³	3	3	LIFE	3050 Genetics ³	4	4
LIFE	3410 Field Ecology ³	2	2	ZOO	4330 Ichthyology ³	3	3
ZOO	4440 Limnology ³	3	3		Upper Elective ⁶	3	3
ZOO	4430 Limnology Lab ³	2	2		Terrestrial Upper elective ^{3,5}	3	3
	Elective	3	3		ASD or ASG (A&S Core)	3	3
TOTAL			<u>13</u>	TOTAL			<u>16</u>



SENIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title	#	#	Dept #	Course Title	#	#
ZOO	4310 Fisheries Management	3	3	ZOO	4400 Population Ecology ³	3	3
ZOO	4970 Internship	1	1	ZOO	4100 Communication in Biological Sciences ⁴	3	3
	Aquatic Biology Elective ³	3	3	ZOO	4190 Comparative Physiology ³	4	4
	Upper Division Elective ⁵	2	2		Upper or Lower Division Elective ⁸	4	4
	Upper or Lower Division Elective ⁶	3	3		Upper or Lower Division Elective ⁶	3	3
	ASD or ASG (A&S Core)	3	3				
TOTAL			<u>15</u>	TOTAL			<u>14</u>
Total Degree Hours						<u>120</u>	
Upper Division Hours						<u>42</u>	

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 the two D&Gs.
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 CHEM2230 Quantitative Analysis (3), 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 LCCC or UW. Should either party desire to discontinue this agreement, advance notification of one year will be required.

SIGNATURES:

Laramie County Community 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.



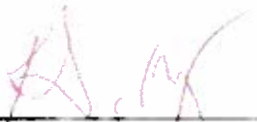
Dr. Jose Hierro
Chief Academic Officer
Laramie County Community College

6-15-15
Date



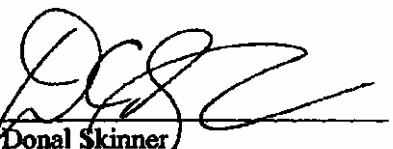
Dr. David Jones
Vice President for Academic Affairs
University of Wyoming

6/2/15
Date




Kathleen Hathaway
Dean of School of Math and Sciences
Laramie County Community College

6/15/15
Date



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

6/2/2015
Date



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

6/4/15
Date

