

**ARTICULATION AGREEMENT FOR  
AS NATURAL SCIENCES AND BS ZOOLOGY  
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, the opportunity to complete a Bachelor of Science in Zoology 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 Zoology, 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		
<i>USP</i>					
COLS 1000	Intro to College Success	3	USP FYS	First Year Seminar	3
COM/ 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
ENGL 1010	English I: Composition	3	ENGL 1010	College Comp. & Rhetoric	3
POLS 1000	American & Wyoming Government	3	USP V	American & Wyoming Government	3
	ECON 1200	Economics, Law, and Government		3	Economics, Law, and Government
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
BIOL 1010	General Biology	4	LIFE 1010	General Biology	4
BIOL 2022	Animal Biology	4	LIFE 2022	Animal Biology	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
CHEM 2320	Organic Chemistry I	3	CHEM 2420	Organic Chemistry I	4
CHEM 2325	Organic Chemistry I Lab	1			
CHEM 2340	Organic Chemistry II	3	CHEM 2440	Organic Chemistry II	4
CHEM 2345	Organic Chemistry II Lab	1			
MATH 1400	College Algebra	3	MATH 1400	College Algebra	3
MATH 1401	Pre-Calculus Algebra				
MATH 1405	Pre-Calculus Trigonometry	3	MATH 1405	Trigonometry	3
MATH 2200	Calculus I	4	MATH 2200	Calculus I	4
MICRO 2240	Medical Microbiology	4	MICRO 2240	Medical Microbiology	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
STAT 2050	Fundamentals of Statistics	4	STAT 2050	Fundamentals of Statistics	4

## UNIVERSITY OF WYOMING COURSEWORK TO COMPLETE BS IN ZOOLOGY

### Courses required for ALL Zoology majors

Course	Course Title	Credits
CHEM XXXX	3 <sup>rd</sup> Chemistry course – not CHEM1000 (usually CHEM2300)	4
LIFE 3050	Genetics	4
LIFE 3400	General Ecology	3
LIFE 3500	Evolutionary Biology	4
ZOO 4100	Communication in Biological Sciences	3
	ASD and ASG courses (College of Arts and Sciences requirement)	6

### Students must select 1 course from the following list:

*Courses not taken here may be added to the electives list below*

Course	Course Title	Credits
ZOO 4330	Ichthyology	3
ZOO 4350	Ornithology	3
ZOO 4370	Mammalogy	3
ZOO 4380	Herpetology	3
ZOO 4540	Invertebrate Zoology	4

### Elective Courses needed for major in Zoology (minimum of 18h required)

Course	Course Title	Credits
ZOO 3010	Vertebrate Anatomy, Embryology & Histology	4
ZOO 3115	Human Systems Physiology	4
ZOO 3600	Animal Behavior	3
ZOO 4190	Comparative Environmental Physiology	4
ZOO 4280	Introduction to Neuroscience	3
ZOO 4300	Wildlife Ecology & Management	5
ZOO 4310	Fisheries Management	3
ZOO 4340	Developmental Biology & Embryology	4
ZOO 4415	Behavioral Ecology	3
ZOO 4420	Conservation Biology	3
ZOO 4430	Limnology Lab (must be taken with ZOO 4440 Limnology)	2
ZOO 4440	Limnology	3
ZOO 4735	Advanced Topics in Physiology	2+
ENTO 4678	Aquatic Entomology	3
ENTO 4682	Insect Anatomy & Physiology	5
ENTO 4684	Classification of Insects	4
MOLB 3000	Introduction to Molecular Biology	3
ANSC 4120	Principles of Mammal Reproduction	3
ANSC 3100	Principles of Animal Nutrition	3
PATB 4310	Introduction to Veterinary Parasitology	3
PATB 4360	Medical Entomology & Parasitology	3
PATB 4710	Medical Virology	3
A&S 4900	Advanced Topics in (e.g. Darwin and the Galapagos)	1+

*Several of the courses listed above have prerequisites*

## Natural Sciences, Associates of Science

Laramie County Community College

### FRESHMAN

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



### SOPHOMORE

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
MICRO	2240	Medical Microbiology	4	STAT	2050	Fundamentals of Statistics	4
MATH	2200	Calculus I <sup>4</sup>	4	PHYS	1120	General Physics II <sup>5</sup> OR	4
PHYS	1110	General Physics I <sup>5</sup> OR	4	CHEM	2340	Organic Chemistry II <sup>5</sup> AND	4
CHEM	2320	Organic Chemistry I AND	4	CHEM	2345	Organic Chemistry II Laboratory	3
CHEM	2325	Organic Chemistry I Laboratory	3			Aesthetic Analysis (Humanities) <sup>1</sup>	3
CO/M	1010	Public Speaking	3			Wyoming State Requirement <sup>2</sup>	3
		Cultural Awareness (Social Sciences) <sup>1</sup>	3				
<b>TOTAL</b>			<b>18</b>	<b>TOTAL</b>			<b>14</b>
						<b>Total Degree Hours</b>	<b>60</b>

**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/bw.kytlc.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, MATH1400, MATH1405
4. This course is part of the "minimum of 30h at C or better list" for the whole BS degree (see below)
5. Students not taking Physics I & II at LCCC will have to take both at UW. Only 3 semesters of Chemistry are required in Zoology

## Zoology, Bachelors of Science

University of Wyoming

### JUNIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title	#	#	Dept #	Course Title	#	#
LIFE	3050	Genetics <sup>3</sup>	4		Upper Division Zoology Elective <sup>2</sup>	3	3
		Required Zoo Elective <sup>2,5</sup>	3		Upper Division Zoology Elective <sup>2</sup>	3	3
LIFE	3400	General Ecology	3		Upper Division Elective <sup>2</sup>	3	3
CHEM		3 <sup>rd</sup> Chemistry course (not 1000) OR	4		Upper or Lower Elective <sup>4</sup>	3	3
PHYS	1110	General Physics I	4		ASD or ASG (A&S Core) <sup>1</sup>	3	3
		ASD or ASG (A&S Core) <sup>2</sup>	3				
<b>TOTAL</b>			<b><u>17</u></b>	<b>TOTAL</b>			<b><u>15</u></b>



### SENIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title	#	#	Dept #	Course Title	#	#
LIFE	3500	Evolutionary Biology <sup>2</sup>	4	ZOO	4100	Communication in Biological Sciences <sup>3</sup>	3
		Upper Division Zoology Elective <sup>2</sup>	4		Upper Division Zoology Elective <sup>2</sup>	3	3
		Upper Division Zoology Elective <sup>2</sup>	3		Upper Division Zoology Elective <sup>2</sup>	3	3
		Upper Division Elective <sup>2</sup>	3		Upper or Lower Elective <sup>4</sup>	2	2
					Upper or Lower Elective <sup>4</sup>	3	3
<b>TOTAL</b>			<b><u>14</u></b>	<b>TOTAL</b>			<b><u>14</u></b>
<b>Total Degree Hours</b>						<b><u>120</u></b>	
<b>Upper Division Hours</b>						<b><u>42</u></b>	

**Transfer Recommendations and Notes:**

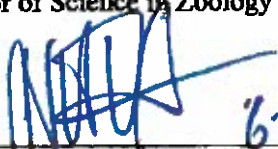
1. Time has been allocated for the ASD & ASGs
2. A minimum of 30h in these electives must be C or better. (includes Calculus I from LCCC)
3. A minimum grade of a C required in these courses
4. These electives may be zoology-related but they are not required to be. May be Internship- or Research-related
5. **REQUIRED ELECTIVE COURSE.** Students must select a course from the following list: ZOO 4330 Ichthyology (3); ZOO 4350 Ornithology (3); ZOO 4370 Mammalogy (3); ZOO 4380 Herpetology (3); ZOO 4540 Invertebrate Zoology (4)

**TERMS of AGREEMENT:**

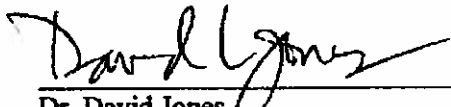
This agreement is made and entered into in the academic year 2015-2016 and remains in force unless a new articulation agreement is signed by all parties. The agreement is subject to annual review to assure currency with the respective degree requirements, and may be amended at any time via written request 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 Zoology by the affixing of signatures of the academic officers of both institutions.

  
6-15-15  
\_\_\_\_\_  
Dr. Jose Ferro  
Chief Academic Officer  
Laramie County Community College


6-15-15  
\_\_\_\_\_  
Date

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

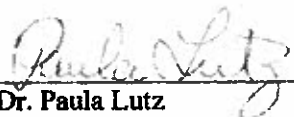
6/8/15  
\_\_\_\_\_  
Date

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

6/15/15  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Dr. Donald 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