

# **ARTICULATION AGREEMENT FOR AS BIOLOGY AND BS ZOOLOGY 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 Biology, the opportunity to complete a **Bachelor of Science in Zoology** 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 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 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
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 2300	Intro to Organic Chemistry	4	CHEM 2300	Intro to Organic Chemistry	4
CHEM 2320	Organic Chemistry I	4	CHEM 2420	Organic Chemistry I	4
MATH 1400	Pre-Calculus Algebra	4	MATH 1400	College Algebra	3
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 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.*

# AS Biology and BS Zoology

## 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><u>16</u></b>	<b>TOTAL</b>			<b><u>15</u></b>

CENTRAL Wyoming COLLEGE

### SOPHOMORE

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title		#	Dept #	Course Title		#
PHYS	1110	Physics I <b>OR</b> <sup>3</sup>	4	STAT	2050	Fundamentals of Statistics <b>OR</b> <sup>3</sup>	4
PHYS	1310	College Physics I <b>OR</b>		PHYS	1120	Physics II <b>OR</b>	
CHEM	2300	Intro to Organic Chemistry <b>OR</b>		PHYS	1320	College Physics II	
CHEM	2320	Organic Chemistry I		Co-Curricular General Education		2	
MATH	2200	Calculus I	5	HUM	Humanities Elective		3
ORAL	Public Speaking		3	POLS	1000 American & Wyoming Government		3
SOC	Social Science		3	ARTS	Arts Elective		3
WELL	Health & Wellness		1				
PEAC	PE Activity		1				
<b>TOTAL</b>			<b><u>17</u></b>	<b>TOTAL</b>			<b><u>15</u></b>
						<b>Total Degree Hours</b>	<b><u>63</u></b>

#### Transfer Recommendations and Notes:

- 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.
- A minimum grade of C is required for BIOL1010, BIOL2020, MATH1400, MATH1405.
- For the BS in Zoology, students must take 2 semesters of Physics, a 3rd 3h Chemistry course (not 1000) and STAT2050

# AS Biology and BS Zoology

University of Wyoming

## JUNIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title	#	#	Dept #	Course Title	#	#
LIFE	3050 Genetics <sup>3</sup>	4		STAT	2050 Fundamentals of Statistics <b>OR</b> <sup>6</sup>		
	Required Zoo Elective <sup>2,5</sup>	3		PHYS	1120 Physics II <b>OR</b>	4	
LIFE	3400 General Ecology	3		PHYS	1320 College Physics II		
PHYS	1110 Physics I <b>OR</b> <sup>6</sup>				Upper Division Zoology Elective <sup>2</sup>	3	
PHYS	1310 College Physics I <b>OR</b>	4			Upper Division Zoology Elective <sup>2</sup>	3	
CHEM	2300 Intro to Organic Chemistry <b>OR</b>				Upper or Lower Elective <sup>4</sup>	2	
CHEM	2320 Organic Chemistry I				ASD or ASG (A&S Core) <sup>1</sup>	3	
<b>TOTAL</b>			<b>14</b>	<b>TOTAL</b>			<b>15</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	
	Upper Division Zoology Elective <sup>2</sup>	3			Upper Division Zoology Elective <sup>2</sup>	3	
	Upper Division Elective <sup>2</sup>	3			Upper Division Elective <sup>2</sup>	3	
					Upper or Lower Elective <sup>4</sup>	2	
<b>TOTAL</b>			<b>14</b>	<b>TOTAL</b>			<b>14</b>
<b>Total Degree Hours</b>						<b>120</b>	
<b>Upper Division Hours</b>						<b>42</b>	

**Transfer Recommendations and Notes:**

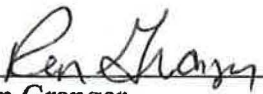
1. Time has been allocated for one of the ASD & ASGs. If students do not complete the other ASD/ASG at CWC then 3 more hours required
2. A minimum of 30h in these electives must be C or better. (Includes Calculus I from CWC)
3. A minimum grade of a C required in these courses
4. These electives may be 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)
6. For the BS in Zoology, students must take 2 semesters of Physics, a 3rd 3h Chemistry course (not 1000) and STAT2050

**TERMS of AGREEMENT:**

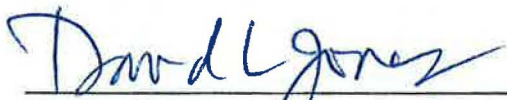
This agreement is made and entered into in the academic year 2015-2016 and remains in force unless a new articulation agreement is signed by all parties. The agreement is subject to annual review to assure currency with the respective degree requirements, and may be amended at any time via written request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

  
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Ron Granger  
Vice President for Academic Affairs  
Central Wyoming College


Date 10/6/15

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

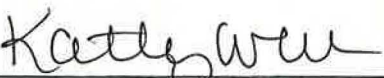
Date 6/30/15

  
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Tara Womack  
Science Department Chair  
Central Wyoming College

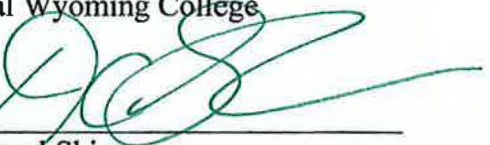
Date 10/1/15

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

Date 6/29/15

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

Date 9-28-15

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

Date 6/17/2015