

**ARTICULATION AGREEMENT FOR
AS BIOLOGY AND BS ZOOLOGY
BETWEEN NORTHERN WYOMING COMMUNITY COLLEGE
AND THE UNIVERSITY OF WYOMING**

OVERVIEW:

This formal program articulation agreement is made and entered into by Northern Wyoming Community College, hereinafter referred to as NWCC, and University of Wyoming, hereinafter referred to as UW. By this agreement NWCC 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 EWC 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

NWCC 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 NWCC and UW.

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

Transfer students from NWCC 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 NWCC 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 NWCC 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*

AS Biology (Track I) and BS Zoology

Northern Wyoming Community College District

FRESHMAN

Fall Semester				Hrs	Spring Semester				Hrs	
Dept	#	Course Title	#	Dept	#	Course Title	#			
BIOL	1010	General Biology ³	4	BIOL	2020	General Biology II ³ OR	4			
MATH	1400	Algebra ³	4	BIOL	2022	Animal Biology ³	4			
ENGL	1010	English I	3	STAT	2050	Fundamentals of Statistics OR	4			
		Cultural Studies Requirement ²	3	MATH	2200	Calculus I ⁴	4			
ANTH	1200	Intro Cultural Anthropology ²	3	AW	0000	Advanced Writing	3			
				WL	0000	Health and Wellness	2			
						Cultural Studies Requirement ¹	3			
TOTAL				14					TOTAL	16

SOPHOMORE

Fall Semester				Hrs	Spring Semester				Hrs	
Dept	#	Course Title	#	Dept	#	Course Title	#			
CHEM	1020	General Chemistry ³	4	CHEM	1030	General Chemistry II	4			
BIOL	2400	General Ecology ⁴	3	PHYS	1120	General Physics II	4			
BIOL	2410	Field Ecology Lab ⁴	2	CO/M	1010	Public Speaking	3			
PHYS	1110	General Physics I	4	CNST	0000	Constitutional Requirement	3			
		Program/General Elective	3							
TOTAL				16					TOTAL	14
								Total Degree Hours	60	

1. Students are **strongly** encouraged to take *Cultural Studies Requirements* 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 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. Students are advised to take ANTH1200 as one of the *Cultural Studies Requirements* to meet the A&S ASG requirement

3. A minimum grade of C is required for BIOL1010, BIOL2020/2, CHEM1020, MATH1400

4. This course is part of the "*minimum of 30h at C or better list*" for the whole BS degree (see below)

UNIVERSITY OF WYOMING COURSEWORK TO COMPLETE BS IN ZOOLOGY

Courses required for ALL Zoology majors

Course	Course Title	Credits
CHEM XXXX	3 rd 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+
<i>Several of the courses listed above have prerequisites.</i>		

AS Biology (Track I) and BS Zoology

University of Wyoming

JUNIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
MATH	1405	Trigonometry ³	3	LIFE	3050	Genetics ³	4
CHEM		3 rd Chem course ⁵	4	STAT	2050	Fundamentals of Statistics OR	4
ZOO	4370	Upper Division <i>required</i> course ^{3,4}	3	MATH	2200	Calculus I ²	4
		Upper Elective ⁶	4			Upper Division Zoology Elective ^{2,7}	3
						ASD or ASG (A&S Core) ¹	3
TOTAL			14	TOTAL			14



SENIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
LIFE	4125	Integrative Physiology ²	4	ZOO	4100	Communication in Biological Sciences ³	3
		Upper Division Zoology Elective ^{2,7}	3			Upper Division Zoology Elective ^{2,7}	3
		Upper Division Zoology Elective ^{2,7}	3			Upper Division Zoology Elective ^{2,7}	3
		Upper Elective ⁶	3			Upper Division Zoology Elective ^{2,7}	3
		Upper Elective ⁶	3			Upper or Lower Division Elective	4
TOTAL			16	TOTAL			16
						Total Degree Hours	120
						Upper Division Hours	42

Transfer Recommendations and Notes:

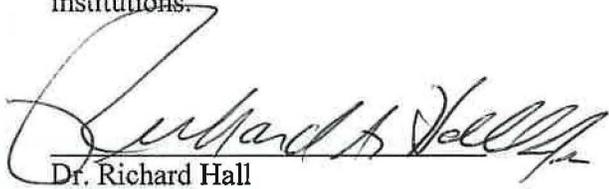
1. Time has been allocated for one of the two D&Gs. If the G or D is not met at NWCC then an additional 3h is required
2. A minimum of 30h must be at C or better for these courses.
3. A C is required
4. **REQUIRED ELECTIVE COURSE.** Students must select a course from the following list: ZOO 4330 Ichthyology (3); ZOO 4350 Ornithology (3); ZOO 4370 Mammalogy (3); ZOO 4380 Herpetology (3); ZOO 4540 Invertebrate Zoology (4). Courses not taken can be added to the elective list below
5. CHEM2300 Introduction to Organic Chemistry is typical. *CHEM1000 may NOT count here*
6. Upper level courses that are not designated electives do not need to be be "zoological". At discretion of student
7. **Zoology Electives (18h):** ZOO3115 Human Systems Physiology (4), ZOO3600 Animal Behavior (3), ZOO4190 Comparative Environmental Physiology (4), ZOO4300 Principles of Wildlife Ecology & Management (5), ZOO4310 Fisheries Management (3), ZOO4340 Developmental Biology & Embryology (4), ZOO4400 Population Ecology (3), ZOO4415 Behavioral Ecology (3), ZOO4420 Conservation Biology (3), ZOO4430 Limnology Lab (2), ZOO4440 Limnology (3), ZOO4560 Quantitative Conservation Biology (4), ZOO4735 Advanced Topics in Physiology (2+), ZOOS060 Fundamental Concepts in Evolution (3), ZOOS300 Wildlife Ecology & Management (1+), ZOOS690 Advanced Animal Behavior (3), A&S4900 Special Topics in _____ (1+), MOLB3000 Introduction to Molecular Biology (3), BOT4550 Computational Biology (4), BOT4664 Special Topics in Evolution (1+), BOT4790 Special Topics in Ecology (1+), ANSC3010 Comparative Anatomy and Physiology of Domestic Animals (4), ANSC3100 Principles of Animal Nutrition (3), ANSC3150 Equine Nutrition and Physiology (3), PATB4170 Diseases of Wildlife (3), PATB4310 Introduction to Veterinary Parasitology (3), PATB 4360 Medical Entomology & Parasitology (4), PATB4710 Medical Virology (3), RNEW5500 Stable Isotope Ecology (3), GEOG3150 Survey of Remote Sensing Applications (3), GEOG3480 Environmental Change (3), ENTO4300 Applied Insect Ecology (3)

TERMS of AGREEMENT:

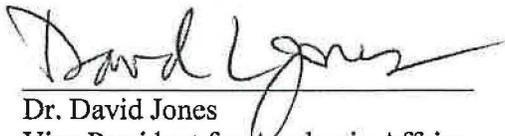
This agreement is made and entered into in the academic year 2015-2016 and remains in force unless a new articulation agreement is signed by all parties. The agreement is subject to annual review to assure currency with the respective degree requirements, and may be amended at any time via written request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

SIGNATURES:

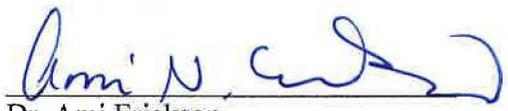
Northern Wyoming Community College and University of Wyoming hereby enter into this program articulation agreement leading from the Associate of Science degree with articulated coursework in Bachelor of Science in Physiology by the affixing of signatures of the academic officers of both institutions.


Dr. Richard Hall
Vice President of Academic Affairs
Northern Wyoming Community College

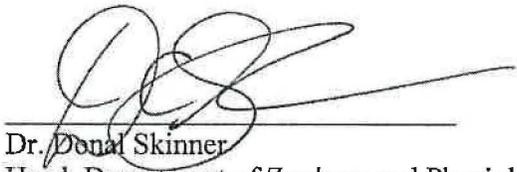
7/13/15
Date


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

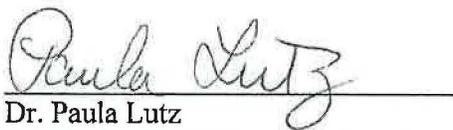
6/8/15
Date


Dr. Ami Erickson
Dean of Ag, Science, Math, Engineering and Culinary
Northern Wyoming Community College

7/13/15
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