

**ARTICULATION AGREEMENT FOR
AS BIOLOGY AND BS PHYSIOLOGY
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 Physiology** 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 Physiology, 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*

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

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

NWCC 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
BIOL 2020	General Biology II				
CHEM 1020	General Chemistry I	4	CHEM 1020	General Chemistry I	4
CHEM 1030	General Chemistry II	4	CHEM 1030	General Chemistry II	4
MATH 1400	Algebra	4	MATH 1400	College Algebra	3
MATH 2200	Calculus I	4	MATH 2200	Calculus I	4
MOLB 2210	General Microbiology	4	MOLB 2021	General Microbiology	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

PHYS 1120 General Physics II 4

AS Biology (Track I) and BS Physiology

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 ¹	3	MATH	2200	Calculus I ⁴				
ANTH	1200	Intro Cultural Anthropology ²		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			
MOLB	2210	General Microbiology	4	PHYS	1120	General Physics II	4			
PHYS	1110	General Physics I	4	CO/M	1010	Public Speaking	3			
		Program/General Elective	4	CNST	0000	Constitutional Requirement	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 PHYSIOLOGY

Courses needed for ALL Physiology majors

Course	Course Title	Credits
CHEM 2420	Organic Chemistry I (this is the usual 3 rd Chemistry course)	4
CHEM XXXX	4th Chemistry course	4
LIFE 3050	Genetics	4
ZOO 3115	Human Systems Physiology	4
ZOO 4125	Integrative Physiology	4
ZOO 4100	Communication in Biology	3
	ASD and ASG courses (College of Arts and Sciences requirement)	6

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

Course	Course Title	Credits
ZOO 3010	Vertebrate Anatomy, Embryology & Histology	4
ZOO 3600	Principles of Animal Behavior	3
ZOO 4110	HIV/AIDS: The Disease and the Dilemma	3
ZOO 4190	Comparative Environmental Physiology	4
ZOO 4280	Introduction to Neuroscience	3
ZOO 4340	Developmental Biology & Embryology	4
ZOO 4670	Cell Physiology	4
ZOO 4735	Advanced Topics in Physiology	2+
NEUR 5100	Structure & Function of the Nervous System	4
NEUR 5685	Neurophysiology	3
NEUR 5887	Molecular Neuropharmacology	3
LIFE 3600	Cell Biology	4
KIN 3021	Physiology of Exercise (<i>Needs KIN2040/41 Human Anatomy as a prerequisite</i>)	3
KIN 3038	Exercise Psychology (will need permission of instructor)	3
KIN 3042	Biomechanics of Human Movement	3
KIN 4042	Applied Biomechanics (prereq KIN 3042)	3
MOLB 3000	Introduction to Molecular Biology	3
MOLB 3610	Principles of Biochemistry	4
MOLB 4100	Clinical Biochemistry	3
MOLB 4400	Immunology	4
PSYC 4080	Physiological Psychology	4
PHCY 4450	Pathophysiology	4
ANSC 4120	Principles of Mammal Reproduction	3
SOC 3550	Medical Sociology	3
ANTH 4210	Human Osteology	3
ANTH 4230	Forensic Anthropology	3
PATB 4130	Mammalian Pathobiology	3
PATB 4140	Principles of Toxicology	3
PATB 4710	Medical Virology	3
CHEM 3550	Physical Chemistry for the Life Sciences	3
<i>Several of the courses listed above have prerequisites. For 5000-level courses permission of the instructor is required</i>		

AS Biology (Track I) and BS Physiology

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
ZOO	3115	Human Systems Physiology ³	4	STAT	2050	Fundamentals of Statistics <i>OR</i>	4
CHEM	2420	Organic Chemistry I ²	4	MATH	2200	Calculus I ²	4
		Upper Level Course	4	CHEM		4th Chemistry course ²	4
						ASD or ASG (A&S Core) ¹	3
			TOTAL				TOTAL
			<u>15</u>				<u>15</u>



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 Physiology Elective ^{2,4}	3			Upper Division Physiology Elective ^{2,4}	4
		Upper Division Physiology Elective ^{2,4}	3			Upper Division Physiology Elective ^{2,4}	3
		Upper Division Physiology Elective ^{2,4}	3			Upper Division Physiology Elective ^{2,4}	3
		Upper Level Course	4				
			TOTAL				TOTAL
			<u>17</u>				<u>13</u>
						Total Degree Hours	<u>120</u>
						Upper Division Hours	<u>42</u>

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. **Physiology Electives (18h):** ZOO 3010 Vertebrate Anatomy, Embryology & Histology (4), ZOO 3021 Physiology of Exercise (3), ZOO 3600 Principles of Animal Behavior (3), ZOO 4110 HIV/AIDS (3), ZOO 4190 Comparative Environmental Physiology (4), ZOO 4280 Introduction to Neuroscience (3), ZOO 4340 Developmental Biology & Embryology (4), ZOO 4670 Cell Physiology (4), ZOO 4735 Advanced Topics in Physiology (2+), NEUR 5100 Structure & Function of the Nervous System (4), NEUR 5685 Neurophysiology (3), NEUR 5887 Molecular Neuropharmacology (3), LIFE 3600 Cell Biology (4), MOLB 3000 Introduction to Molecular Biology (3) MOLB 3610 Principles of Biochemistry (4), MOLB 4100 Clinical Biochemistry (3), MOLB 4400 Immunology (4), PSYC 4080 Physiological Psychology (4), PHCY 4450 Pathophysiology (4), ANSC 4120 Principles of Mammal Reproduction (3), SOC 3550 Medical Sociology (3), ANTH 4210 Human Osteology (3), ANTH 4230 Forensic Anthropology (3), PATB 4130 Mammalian Pathobiology (3), PATB 4140 Principles of Toxicology (3), PATB 4710 Medical Virology (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.

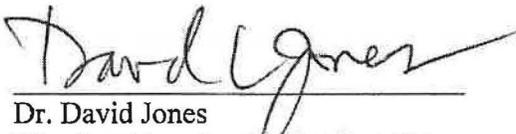
SIGNATURES:

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.



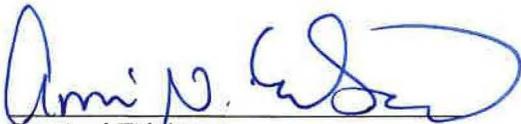
Dr. Richard Hall
Vice President of Academic Affairs
Northern Wyoming Community College

2/13/15
Date



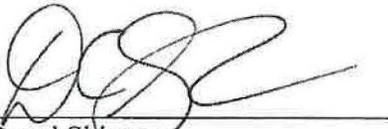
Dr. David Jones
Vice President for Academic Affairs
University of Wyoming

6/4/15
Date



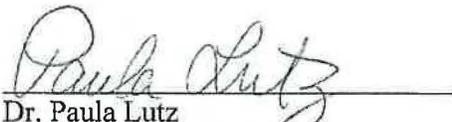
Dr. Ami Erickson
Dean of Ag, Science, Math, Engineering and Culinary
Northern Wyoming Community College

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