ARTICULATION AGREEMENT FOR AS NATURAL SCIENCES AND BS PHYSIOLOGY 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 Physiology 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 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 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	USPH	USP 2015 H	3
	Social Science Elective	3	USPH	USP 2015H	3
ENGL 1010	English I: Composition	3	ENGL 1010	College Comp. & Rhetoric	3
POLS 1000	American & Wyoming Government	3		American & Wyoming Government	3
ECON 1200	Economics, Law, and Government	3	USP V	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
HJST 1251	Wyoming History	3	1	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	Oi- Obi-t1	4	
CHEM 2325	Organic Chemistry I Lab	1	CHEM 2420	Organic Chemistry 1	4	
CHEM 2340	Organic Chemistry II	3	CHEM 2440	O-comic Chamainena II	4	
CHEM 2345	Organic Chemistry II Lab	1	CHEM 2440	Organic Chemistry II	4	
MATH 1400	College Algebra	3	MATH 1400	Callege Alesbur	2	
MATH 1401	Pre-Calculus Algebra	7 '	MAITHUU	College 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 PHYSIOLOGY

Courses needed for ALL Physiology majors

Course Title	Credits
Organic Chemistry I (this is the usual 3 rd Chemistry course)	4
4th Chemistry course	4
Genetics	4
Human Systems Physiology	4
Integrative Physiology	4
Communication in Biology	3
ASD and ASG courses (College of Arts and Sciences requirement)	6
	Organic Chemistry I (this is the usual 3 rd Chemistry course) 4th Chemistry course Genetics Human Systems Physiology Integrative Physiology Communication in Biology

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

Course	Course (Title)	Credi
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
200 4280	Introduction to Neuroscience	3
ZOO 4340	Developmental Biology & Embryology	4
ZOD 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 (Needs KIN2040/41 Human Anatomy as a prerequisite)	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
OC 3550	Medical Sociology	3
NTH 4210	Human Osteology	3
ANTH 4230	Forensic Anthropology	3
ATB 4130	Mammalian Pathobiology	3
ATB 4140	Principles of Toxicology	3
PATB 4710	Medical Virology	3
HEM 3550	Physical Chemistry for the Life Sciences	3

Several of the courses listed above have prerequisites. For 5000-level courses permission of the instructor is required

Natural Sciences, Associates of Science

Laranie County Community College

				FR	ESHI
Fall Sc	mester			Hrs	Sprin
Dept	#	Course Title		#	Dept
BIOL	1010	General Biology ³		4	BIOL
СНЕМ	1020	General Chemistry (3		_4	CHEN
MATH	1400	College Algebra ³ or		3	MAT
MATH	1401	Pre-Calculus Algebra ³			ENGL
COLS	1000	College Success		3	
			TOTAL	14	

Spring Semester					
Dept	#	Course l'itle	#		
BIOL	2022	Animal Biology ³	4		
CHEM	1030	General Chemistry II	4		
MATH	1405	Pre-Calculus Trigonometry ³	3		
ENGL	1010	English I: Composition	3		

3-12-27			DOL
Fall Se	mester		Hrs
Dept	#	Course Tule	#
MICRO	2240	Medical Microbiology	4
MATH	2200	Calculus I ⁴	4
PHYS	1110	General Physics I OR	
CHEM	2320	Organic Chemistry I AND	4
CHEM	2325	Organic Chemistry I Laboratory	
CO/M	1010	Public Speaking	3

Cultural Awareness (Social Sciences)³

4	5
4	
4	
3	
3	
18	

Spring	Semeste	F	Hrs
Dept	#	Course Title	#
STAT	2050	Fundamentals of Statistics	4
PHYS	1120	General Physics II OR	
CHEM	2340	Organic Chemistry II AND	4
CHEM	2345	Organic Chemistry II Laboratory	
	TO PACE	Aesthetic Analysis (Humanities) ¹	3
		Wyoming State Requirement ²	3

TOTAL **Total Degree Hours**

<u> 14</u>

TOTAL

14

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, CHEM1020, MATH1400, MATH1405
- 4. This course is part of the "minimum of 30h at C or better list" for the whole BS degree (see below)

TOTAL

Physiology, Bachelors of Science

UNIOR

Spring Semester

University of Wyoming

			J			
Fall :	Fall Semester					
Dept	#	Course Title	#			
z00	3115	Human Systems Physiology ³	4			
UFE	3050	Genetics ²	4			
CHEM	2420	Organic Chemistry I ² OR	4			
PHYS	1110	General Physics I				
		ASD or ASG (A&S Core) ¹	3			

Dept	#	Course Title	*
DLIVE		4 th Chemistry Course ² OR	4
PHYS	1120	General Physics II Upper Division Physiology Elective ^{2,5}	2
		Upper Division Physiology Elective ^{2,5}	3
		Upper Division Elective ⁴	3
		Upper Division Elective ⁴	3

Hrs

TOTAL

16

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Fall Semester			Hrs	Spring Semester		Hrs	
Dept	#	Course Title	#	Dept	#	Course Title	ú
200	4125	Integrative Physiology ²	4	zoo	4100	Communication in Biological Sciences ³	3
		Upper Division Physiology Elective ^{2,5}	3			Upper Division Physiology Elective ^{2,5}	3
		Upper Division Physiology Elective ^{2,5}	3			Upper Division Physiology Elective 25	3
		Upper Division Elective ⁴ ASD or ASG (A&S Core) ¹	3 3			Upper or Lower Division Elective ⁴	4
						Total Degree Hours	120
						Upper Division Hours	42

Transfer Recommendations and Notes:

- 1. Time has been allocated for the D&Gs
- 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 Upper Division electives may be physiology-related but they are not required to be. May be Internship- or Research related
- 5. 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 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 Physiology by the affixing of signatures of the academic officers of both institutions.

Dr. Jose Fierro

Chief Academic Officer

Laramie County Community College

Dr. David Jones

Vice President for Academic Affairs

University of Wyoming

Kathleen Hathaway

Dean of School of Math and Sciences Laramie County Community College

Dr. Donal Skinner

Head, Department of Zoology and Physiology

University of Wyoming

Dr. Paula Lutz

Dean, College of Arts & Sciences

University of Wyoming

Date