

**ARTICULATION AGREEMENT FOR  
AS BIOLOGY AND BS PHYSIOLOGY  
BETWEEN EASTERN WYOMING COLLEGE  
AND THE UNIVERSITY OF WYOMING**

**OVERVIEW:**

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

EWC 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 EWC and UW.

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

Transfer students from EWC 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 EWC 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 EWC 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*

**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 EWC or UW. Should either party desire to discontinue this agreement, advance notification of one year will be required.

**SIGNATURES:**

Eastern 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 Physiology by the affixing of signatures of the academic officers of both institutions.



Dr. Michelle Landa  
Academic Services Vice President  
Eastern Wyoming College

10/7/15  
Date



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

10/20/15  
Date



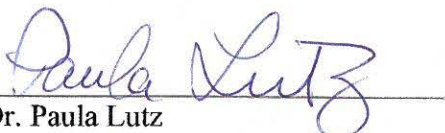
Chris Wenzel  
Division Chair, Science  
Eastern Wyoming College

10/8/15  
Date



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

10/13/15  
Date



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

10/14/15  
Date

# Biology, AS

## (Leading to UW Physiology, BS)



### Eastern Wyoming College

#### FRESHMAN YEAR

Fall Semester			Hrs	Spring Semester			Hrs
		Freshman Foundations Requirement	1	BIOL 2020		General Biology II <sup>1</sup>	4
BIOL	1010	General Biology I <sup>1</sup>	4	CHEM 1030		General Chemistry II	4
CHEM	1020	General Chemistry I	4	ENGL 2020		Introduction to Literature	3
ENGL	1010	English I: Composition	3	MATH 1405		Pre-Calculus Trigonometry <sup>1</sup>	3
MATH	1400	Pre-Calculus Algebra <sup>1</sup>	4				
<b>TOTAL</b>			<b><u>16</u></b>	<b>TOTAL</b>			<b><u>14</u></b>

#### SOPHOMORE YEAR

Fall Semester			Hrs	Spring Semester			Hrs
		Physical Education Activity	1			Arts & Humanities Requirement <sup>2</sup>	3
		Social & Cultural Awareness <sup>2</sup>	3			Outcomes Assessment Requirement	
CHEM	2320	Organic Chemistry I <sup>3,6</sup>	4			US & Wyoming Constitutions Requirement	3
MATH	2200	Calculus I <sup>4</sup>	4	CHEM 2340		Organic Chemistry II <sup>5,6</sup>	4
PHYS	1110	General Physics I	4	STAT 2050		Fundamentals of Statistics	4
<b>TOTAL</b>			<b><u>16</u></b>	<b>TOTAL</b>			<b><u>14</u></b>

**TOTAL EWC AS DEGREE HOURS 60**

Successful completion of the 2+2 plan requires that a student remain continuously enrolled and graduate with the associate's degree from his or her respective community college. • This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the catalogs of their respective institutions and consult with their academic advisor to plan accordingly. • Academic plans and course schedules may need to be altered if ACT or Math Placement scores require a student to take pre-college courses (e.g., MATH 0900, 0921, or 0925) before taking required math or English courses.

#### Eastern Wyoming College requirements:

In order to graduate, students must successfully complete a minimum of 60 credit hours, 15 of which must be applicable towards graduation from Eastern Wyoming College, with a grade point average of 2.0 or better in courses numbered 1000 or higher. • No more than six (6) hours in courses numbered 1490, 1990, 2490, or 2990 will apply toward the degree; in addition, no course offered under the Developmental Studies Department may be applied toward the degree.

#### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only

#### UW College of Arts and Sciences requirements:

Students must take two "core" courses in addition to UW's University Studies Program requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

# Physiology, BS



University of Wyoming

## JUNIOR YEAR

Fall Semester			Hrs	Spring Semester			Hrs
		ASD or ASG Requirement <sup>a</sup>	3			ASD or ASG Requirement <sup>a</sup>	3
LIFE	3050	Genetics <sup>b</sup>	4	PHYS	1120	General Physics II	4
ZOO	3115	Human Systems Physiology <sup>c</sup>	4			Upper Division Physiology Elective <sup>b,d</sup>	3
		Upper Division Physiology Elective <sup>b,d</sup>	4			Upper Division Electives <sup>e</sup>	7
<b>TOTAL</b>			<b><u>15</u></b>	<b>TOTAL</b>			<b><u>17</u></b>

## SENIOR YEAR

Fall Semester			Hrs	Spring Semester			Hrs
ZOO	4125	Integrative Physiology <sup>b</sup>	4	ZOO	4100	Scientific Communication <sup>c</sup>	C3 3
		Upper Division Physiology Electives <sup>b,d</sup>	7			Upper Division Physiology Electives <sup>b,d</sup>	6
		Elective <sup>e</sup>	4			Elective <sup>e</sup>	4
<b>TOTAL</b>			<b><u>15</u></b>	<b>TOTAL</b>			<b><u>13</u></b>
<b>TOTAL UW HOURS</b>							<b><u>60</u></b>
<b>TOTAL UW BS DEGREE HOURS</b>							<b><u>120</u></b>

### EWC Biology Program Notes:

1. A minimum grade of C is required for BIOL 1010 (General Biology I), BIOL 2020 (General Biology II), MATH 1400 (Pre-Calculus Algebra), and MATH 1405 (Trigonometry).
2. Students are **strongly** encouraged to take an Arts & Humanities and/or Social & Cultural Awareness elective at EWC that correspond to the UW College of Arts & Sciences *Diversity in the US (ASD)* and *Global Awareness (ASG)* electives or else they will have to fulfill ASD & ASG requirements at UW. A list of ASD and ASG courses that transfer is available at [wyosb.uwyo.edu/bnrprod/bwckytfc.p\\_display\\_transfer\\_catalog](http://wyosb.uwyo.edu/bnrprod/bwckytfc.p_display_transfer_catalog). Courses with a USP attribute of either U3D or U3G meet the ASD and ASG, respectively. One suggested course is ANTH 1200 (Introduction to Cultural Anthropology), which meets the ASG requirement.
3. CHEM 2320 is the required course for students transferring to the University of Wyoming to earn the BS in Physiology. Credit cannot be earned in both CHEM 2300 (Introductory Organic Chemistry) and CHEM 2320 (Organic Chemistry I).
4. This course is part of the "minimum of 30 credit hours at C or better" list required for UW's BS in Physiology degree (see "b" below).
5. CHEM 2340 (Organic Chemistry II) is required for the UW BS in Physiology. If a student takes MOLB 2220 (Pathogenic Microbiology), which is an option in the EWC Biology AS degree, it will not meet the degree requirements for the UW BS in Physiology, and will transfer to UW as an elective only for this degree.
6. This plan assumes that a student has taken both CHEM 2320 (Organic Chemistry I) and CHEM 2340 (Organic Chemistry II) at EWC before transferring to UW to complete the BS in Physiology.

### UW Physiology Program Notes:

- a) Please see note #2 for Eastern Wyoming College. If the ASD and ASG requirements have been met, these become elective credits.
- b) A minimum of 30 credit hours must be at a grade of C or better for these courses.
- c) A grade of C is required in this course.

## University of Wyoming

### UW Physiology Program notes con't:

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

**e)** These electives, lower (1000- or 2000-level) or upper division (3000-level or above), do not need to be in the major. May be internship or research related.

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

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

EWC 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 2023	Biology of Plants and Fungi	4	LIFE 2023	Biology of Plants and Fungi	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
COSC 1200	Computer Information Systems	3	COSC1200	Computer Information Systems	3
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
REWM 2000	Principles of Range Management	3	REWM 2000	Principles of Rangeland Management	3
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	Course Title	Credits
CHEM 2420	Organic Chemistry I (this is the usual 3 <sup>rd</sup> 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>		