

**ARTICULATION AGREEMENT FOR  
AS BIOLOGY AND BS PHYSIOLOGY  
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 Physiology** 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 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 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
ZOO 2025	Human Physiology				
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
CHEM 2340	Organic Chemistry II	4	CHEM 2340	Organic Chemistry II	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 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 ( <i>will need permission of instructor</i> )	3
KIN 3042	Biomechanics of Human Movement	3
KIN 4042	Applied Biomechanics ( <i>prereq KIN 3042</i> )	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 and BS Physiology

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	ZOO	2025 Human Physiology	4	
MATH	1400 Pre-Calculus Algebra	4	CHEM	1030 General Chemistry II	4	
ENGL	1010 English Composition I	3	MATH	1405 Trigonometry	3	
UNST	1005 Freshman Seminar	1	ENGL	1020 English Composition II	3	
			FIN	1001 Personal Financial Planning	1	
<b>TOTAL</b>			<b>16</b>	<b>TOTAL</b>		<b>15</b>

CENTRAL Wyoming COLLEGE

## SOPHOMORE

Fall Semester		Hrs	Spring Semester		Hrs	
Dept #	Course Title	#	Dept #	Course Title	#	
PHYS	1110 Physics I <i>OR</i> <sup>2</sup>	4	STAT	2050 Fundamentals of Statistics <i>OR</i> <sup>2</sup>	4	
PHYS	1310 College Physics I <i>OR</i>		MATH	2205 Calculus II <i>OR</i>		
CHEM	2320 Organic Chemistry I		PHYS	1120 Physics II <i>OR</i>		
MATH	2200 Calculus I	5	PHYS	1320 College Physics II <i>OR</i>	3	
ORAL	Public Speaking	3	CHEM	2340 Organic Chemistry II		
SOC	Social Science	3		Co-Curricular General Education		2
WELL	Health & Wellness	1	HUM	Humanities Elective	3	
PEAC	PE Activity	1	POLS	1000 American & Wyoming Government	3	
			ARTS	Arts Elective	3	
<b>TOTAL</b>			<b>17</b>	<b>TOTAL</b>		<b>12</b>
					<b>Total Degree Hours</b>	<b>60</b>

**Transfer Recommendations and Notes:**

1. 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.
2. A minimum grade of C is required for BIOL1010, BIOL2020, MATH1400, MATH1405.
3. For the BS in Physiology students must take 2 semesters of Physics, 4 semesters of Chemistry (not 1000) and STAT2050 or CALC II

# AS Biology and BS Physiology

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>5</sup>	4
ZOO	3115	Human Systems Physiology <sup>3</sup>	4	MATH	2205	Calculus II	
PHYS	1110	Physics I <b>OR</b> <sup>5</sup>		PHYS	1120	Physics II <b>OR</b> <sup>5</sup>	4
PHYS	1310	College Physics I <b>OR</b>	4	PHYS	1320	College Physics II	
CHEM	2320	Organic Chemistry I		CHEM		4th Chemistry course <sup>2</sup>	4
		Upper Elective <sup>4</sup>	3			Upper Division Physiology Elective <sup>2</sup>	3
			<b>TOTAL</b>				<b>TOTAL</b>
			15				15



## SENIOR

Fall Semester			Hrs	Spring Semester			Hrs
Dept #	Course Title		#	Dept #	Course Title		#
LIFE	4125	Integrative Physiology <sup>2</sup>	4	ZOO	4100	Communication in Biological Sciences <sup>3</sup>	3
		Upper Division Physiology Elective <sup>2</sup>	3			Upper Division Physiology Elective <sup>2</sup>	3
		Upper Division Physiology Elective <sup>2</sup>	3			Upper Division Physiology Elective <sup>2</sup>	3
		Upper Elective <sup>4</sup>	3			Upper Division Physiology Elective <sup>2</sup>	3
		ASD or ASG (A&S Core) <sup>4</sup>	3			Upper Elective <sup>4</sup>	3
			<b>TOTAL</b>				<b>TOTAL</b>
			16				15
						<b>Total Degree Hours</b>	<u>124</u>
						<b>Upper Division Hours</b>	<u>42</u>

**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 physiology-related but they are not required to be. May be Internship- or Research-related
5. For the BS in Physiology students must take 2 semesters of Physics, 4 semesters of Chemistry (not 1000) and STAT2050 or CALC II

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

  
Ron Granger  
Vice President for Academic Affairs  
Central Wyoming College

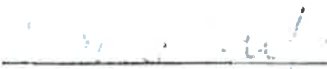
Date 10/20/15

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


Date 10/19/15

  
Tara Womack  
Science Department Chair  
Central Wyoming College


Date 10/20/15

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

Date 10/21/15

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

Date 10-21-15

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

Date 10/5/2015