

Pre-Med, AS

(Leading to UW Physiology BS)



Casper College

FRESHMAN YEAR

Fall Semester				Hrs	Spring Semester				Hrs
			Physical Education Requirement	1	BIOL	2022	Animal Biology ¹	4	
BIOL	1010		General Biology ¹	4	OR				
CHEM	1025		General Chemistry	3	BIOL	2023	Plant and Fungal Biology (4 hrs)		
CHEM	1028		General Chemistry Lab	1	CHEM	1035	General Chemistry II	3	
ENGL	1010		English I: Composition	3	CHEM	1038	General Chemistry II Lab	1	
MATH	1400		Pre-Calculus Algebra ¹	4	ENGL	1020	English II: Composition	3	
					MATH	1405	Trigonometry ¹	3	
							Biological Sciences Elective	3	
TOTAL				<u>16</u>	TOTAL				<u>17</u>

SOPHOMORE YEAR

Fall Semester				Hrs	Spring Semester				Hrs
			Cultural Environment Requirement ²	3			Human Behavior Requirement ²	3	
MOLB	2210		General Microbiology	4	CHEM	2320	Organic Chemistry I ³	3	
PHYS	1110		General Physics I	4	CHEM	2325	Organic Chemistry Laboratory I	1	
POLS	1000		American and Wyoming Government	3	PHYS	1120	General Physics II	4	
			Biological Sciences Elective	3			Biological Sciences Elective	3	
TOTAL				<u>17</u>	TOTAL				<u>14</u>
TOTAL CC AS DEGREE HOURS								<u>64</u>	

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.

Casper College requirements:

In order to graduate, students must successfully complete a minimum of 60 credit hours, with 15 of the last 30 semester hours completed as a degree-seeking student at Casper College, and with a grade point average of 2.0 or higher in those courses counted toward graduation. • Students must earn at least 24 of the semester credits applied toward graduation through the completion of Casper College coursework, including at least six (6) hours with the desired major. • Only courses numbered 1000 or above can be used 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 for S/U.

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
LIFE	3050	Genetics ^a	4	STAT	2050	Fundamentals in Statistics	4
MATH	2200	Calculus I ^a	4			Chemistry Elective ^b (4th course)	4
ZOO	3115	Human Systems Physiology ^b	4			Upper Division Physiology Electives ^{b,d}	6
		Upper Division Elective ^c	3			Upper Division Elective ^c	3
TOTAL			<u>15</u>	TOTAL			<u>17</u>

SENIOR YEAR

Fall Semester			Hrs	Spring Semester			Hrs
		ASD or ASG Requirement ^c	3			ASD or ASG Requirement ^c	3
ZOO	4125	Integrative Physiology ^b	4	ZOO	4100	Scientific Communication ^a	C3 3
		Upper Division Physiology Electives ^{b,d}	6			Upper Division Physiology Elective ^{b,d}	6
		Upper Division Elective ^c	3			Upper Division Elective ^c	2
TOTAL			<u>16</u>	TOTAL			<u>14</u>
						TOTAL UW HOURS	<u>62</u>
						TOTAL UW BS DEGREE HOURS	<u>126</u>

Casper College Program Notes:

1. A minimum grade of C is required for BIOL 1010 (General Biology), BIOL 2022 (Animal Biology), MATH 1400 (Pre-Calculus Algebra), and MATH 1405 (Trigonometry).
2. Students are **strongly** encouraged to take *Human Behavior/Cultural Environment* electives at Casper College 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/bwcktyfc.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. Students can take CHEM 2300 (Intro to Organic Chemistry) but this limits progress to CHEM 2340 (Organic Chemistry II) which is required for the BS in Physiology at UW.

UW Physiology Program Notes:

- a) A grade of C is required in this course.
- b) A minimum of 30 credit hours must be at a grade of C or better for these courses.
- c) These upper division (3000-level or above) electives do not need to be in the major. May be internship or research related.

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) Please see note #2 for Casper College. If the ASD and ASG requirements have been met, these become elective credits.