

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 ¹	4
BIOL	1010	General Biology I ¹	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 ¹	3
MATH	1400	Pre-Calculus Algebra ¹	4				
TOTAL			<u>16</u>	TOTAL			<u>14</u>

SOPHOMORE YEAR

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

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

SENIOR YEAR

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

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. 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.

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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.