

AS Biology and BS Physiology

Eastern Wyoming College

FRESHMAN

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
BIOL	1010	General Biology ²	4	BIOL	2020	General Biology II ²	4
CHEM	1020	General Chemistry I	4	CHEM	1030	General Chemistry II	4
MATH	1400	Pre-Calculus Algebra ²	4	MATH	1405	Pre-Calculus Trigonometry ²	3
ENGL	1010	English I	3	ENGL	2020	Intro to Literature	3
HDMV	1000	Freshman Foundations	1				
TOTAL			<u>16</u>	TOTAL			<u>14</u>



SOPHOMORE

Fall Semester			Hrs	Spring Semester			Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#
CHEM	2320	Organic Chemistry I ⁴	4	STAT	2050	Fundamentals of Statistics	4
MATH	2200	Calculus I ³	4	CHEM	2340	Organic Chemistry II ⁵	4
PHYS	1100	General Physics I	4			Constitutional Requirement	3
		Social & Cultural Awareness	3			Arts & Humanities ¹	3
PEAC		Physical Education Activity	1			Outcomes Assessment	
TOTAL			<u>16</u>	TOTAL			<u>14</u>

Total Degree Hours **60**

Transfer Recommendations and Notes:

- Students are **strongly** encouraged to take an *Arts & Humanities Elective* and/or a *Social & Cultural Awareness* elective 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 D & G courses that transfer is available here (https://wyosb.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.
- A minimum grade of C is required for BIOL1010, BIOL2020, MATH1400, MATH1405.
- This course is part of the "*minimum of 30h at C or better list*" for the whole BS degree (see below)
- If students take CHEM2300, they need to be aware that they will not be permitted to enroll in Organic Chemistry II at UW
- If students take MOLB2220, the course would not "count" to the specific BS degree hours, whereas CHEM2340 will
- The BS in Physiology below assumes that a student has taken both Organic Chemistry semester at EWC

AS Biology and BS Physiology

University of Wyoming

JUNIOR

Fall Semester				Hrs	Spring Semester				Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#		
ZOO	3115	Human Systems Physiology ³	4	PHYS	1120	General Physics II			4
LIFE	3050	Genetics ²	4			Upper Division Physiology Elective ^{2,5}			3
		Upper Division Physiology Elective ^{2,5}	4			Upper Division Elective ⁴			4
		ASD or ASG (A&S Core) ¹	3			Upper Division Elective ⁴			3
						ASD or ASG (A&S Core) ¹			3
TOTAL				15	TOTAL				17



SENIOR

Fall Semester				Hrs	Spring Semester				Hrs
Dept	#	Course Title	#	Dept	#	Course Title	#		
ZOO	4125	Integrative Physiology ²	4	ZOO	4100	Communication in Biological Sciences ³			3
		Upper Division Physiology Elective ^{2,5}	4			Upper Division Physiology Elective ^{2,5}			3
		Upper Division Physiology Elective ^{2,5}	3			Upper Division Physiology Elective ^{2,5}			3
		Elective (upper or lower) ⁴	4			Elective (upper or lower) ⁴			4
TOTAL				15	TOTAL				13
								Total Degree Hours	120
								Upper Division Hours	42

Transfer Recommendations and Notes:

- Time has been allocated for the two D&Gs
- A minimum of 30h must be at C or better for these courses.
- A C is required
- These Upper or Lower Division electives do not need to be in the major. May be Internship- or Research-related
- 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)