

“W” Number: _____
 Student Name: _____
 Advisor Name: _____

Catalog: 2021-2022 University of Wyoming Catalog
 Program: Physiology, B.S.

Physiology, B.S.

Physiology is the study of how animals work: how they breathe, feed, interact with their environment, and carry out many other activities and functions. Physiology is the knowledge that the health sciences are built on and so is especially important for students who may be thinking of becoming medical practitioners, veterinarians or health care professionals.

All courses in the major must be completed with a grade of “C” or better.

Foundation Courses:

(MATH 1450 may substituted for MATH 1400 and MATH 1405)

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH1400 - College Algebra	Credits: 3			
MATH1405 - Trigonometry	Credits: 3			
MATH2200 - Calculus I	Credits: 4			
STAT2050 - Fundamentals of Statistics	Credits: 4			
OR				
STAT2070 - Introductory Statistics for the Social Sciences	Credits: 4			
CHEM1020 - General Chemistry I	Credits: 4			
CHEM1030 - General Chemistry II	Credits: 4			
PHYS1110 - General Physics I	Credits: 4			
PHYS1120 - General Physics II	Credits: 4			
LIFE1010 - General Biology	Credits: 4			
LIFE2022 - Animal Biology	Credits: 4			
OR				
MICR2021 - General Microbiology	Credits: 4			
OR				
MOLB2021 - General Microbiology	Credits: 4			
LIFE3050 - Genetics	Credits: 4			

Two Additional CHEM Courses:

*MOLB 3610 may be used as a CHEM elective, but cannot also count as a PHSO Core Elective.

*CHEM 3550 may be used as a CHEM elective, but cannot also count as a PHSO Core Elective

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHEM2230 - Quantitative Analysis	Credits: 5			
CHEM2300 - Introductory Organic Chemistry	Credits: 4			
CHEM2420 - Organic Chemistry I	Credits: 4			
CHEM2440 - Organic Chemistry II	Credits: 4			
CHEM3020 - Environmental Chemistry	Credits: 3			
CHEM3550 - Physical Chemistry for the Life Sciences	Credits: 3			
CHEM4050 - Solar Energy Conversion	Credits: 3			
CHEM4230 - Instrumental Methods of Chemical Analysis	Credits: 5			
CHEM4400 - Biological Chemistry	Credits: 3			
MOLB3610 - Principles of Biochemistry *	Credits: 4			

Physiology Core Required Courses

Course Name	Credits:	Term Taken	Grade	Gen Ed
ZOO3115 - Human Systems Physiology	Credits: 4			
ZOO4125 - Integrative Physiology	Credits: 5			
ZOO4100 - Scientific Communication (or approved USP C3 substitute) AND	Credits: 2			
ZOO4101 - Scientific Communication Lab (or approved USP C3	Credits: 1			

substitute)

Physiology Core Electives

A minimum of 10 of the 18 Physiology Core Elective credits must be exclusive to the PHSO major.

At the end of this program students will have a thorough knowledge of physiology, will be well prepared to enter health sciences or graduate education, and will have a range of skills attractive to employers.

Choose a Total of 18 Credits From:

**cannot count towards PHSO electives if used as a CHEM requirement in the Foundational Courses

Course Name	Credits:	Term Taken	Grade	Gen Ed
ANSC4120 - Principles of Mammalian Reproduction	Credits: 3			
ANSC4260 - Mammalian Endocrinology	Credits: 3			
ANTH4210 - Human Osteology	Credits: 3			
ANTH4230 - Forensic Anthropology	Credits: 3			
KIN3021 - Physiology of Exercise	Credits: 3			
KIN3038 - Exercise Psychology	Credits: 3			
KIN3042 - Biomechanics of Human Movement	Credits: 3			
KIN4042 - Advanced Biomechanics	Credits: 3			
LIFE3600 - Cell Biology	Credits: 4			
MICR4001 - Epidemiology (Diseases in Population)	Credits: 3			
MOLB3610 - Principles of Biochemistry **	Credits: 4			
MOLB4670 - Advanced Molecular Cell Biology	Credits: 3			
MOLB4100 - Clinical Biochemistry	Credits: 4			
MOLB4400 - Immunology	Credits: 4			
NEUR4295 - Neurodevelopment	Credits: 3			
NEUR5100 - Structure and Function of the Nervous System	Credits: 4			
NEUR5295 - Neurodevelopment	Credits: 3			
NEUR5685 - Neurophysiology	Credits: 3			
NEUR5887 - Molecular Neuropharmacology	Credits: 3			
PATB4001 - Epidemiology (Diseases in Population)	Credits: 3			
PATB4130 - Mammalian Pathobiology	Credits: 3			
PATB4140 - Principles of Toxicology	Credits: 3			
PATB4400 - Immunology	Credits: 4			
PATB4710 - Medical Virology	Credits: 3			
PHCY3450 - Foundational Pathophysiology	Credits: 4			
PSYC3250 - Health Psychology	Credits: 3			
PSYC4040 - Cognitive Neuroscience	Credits: 4			
PSYC4080 - Physiological Psychology	Credits: 4			
PSYC4250 - Psychological Aspects of Chronic Illness	Credits: 3			
SOC3550 - Medical Sociology	Credits: 3			
SOC4160 - Sociology of Aging	Credits: 3			
ZOO3010 - Vertebrate Anatomy, Embryology, and Histology	Credits: 4			
ZOO4100 - Scientific Communication	Credits: 2			
ZOO4280 - Introduction to Neuroscience	Credits: 3			
ZOO4340 - Developmental Biology and Embryology	Credits: 4			
• ZOO 4670				
ZOO4735 - Advanced Topics in Physiology	Credits: 1-4			
ZOO5100 - Structure and Function of the Nervous System	Credits: 4			
ZOO5685 - Neurophysiology	Credits: 3			
SPPA3265 - Anatomy and Physiology of Speech, Swallowing and Hearing	Credits: 4			
CHEM3550 - Physical Chemistry for the Life Sciences **	Credits: 3			

Notes: