BIOMEDICAL SCIENCES, PHD

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 60

Code	Title	Hours			
Degree Core	Degree Core				
Required Courses					
Thirty hours from:		30			
BIOM 6000	Research and Dissertation				
BIOM 6662	Research Ethics and Survival Skills for the Biomedical Sciences	2			
BIOM 6922	Scientific Communication in Biomedical Sciences	2			
Hours Subtotal		34			
Optional Electives					
Select 26 hours from the following:					
BIOM 5010	Special Topics in Biomedical Sciences				
BIOM 5020	Biomedical Sciences Seminar				
BIOM 5116	Clinical Anatomy				
BIOM 5122	Introduction and Survey of Human Structure				
BIOM 5133	Neuroanatomy				
BIOM 5144	Histology and Development				
BIOM 5215	Medical Biochemistry				
BIOM 5316	Medical Microbiology and Immunology				
BIOM 5616	Graduate Biomedical Physiology				
BIOM 5621	Introduction to Translational Research				
BIOM 5631	Disease Research in Medicine				
BIOM 5641	Cornerstones of Vertebrate Paleontology				
BIOM 5653	Evolutionary Physiology				
BIOM 5663	Graduate Pharmacology				
BIOM 5672	Scientific Outreach Training for Graduate Students				
BIOM 5683	Chronic Inflammation and Cancer Development				
BIOM 5693	Principle Concepts of Cellular and Molecular Immunology				
BIOM 5703	Applied Multivariate and Evolutionary Analysis of Paleontological Data				
BIOM 5983	Principles of Neuroscience				
BIOM 5993	Principles of Neuroanatomy				
BIOM 6175	Molcular And Cellular Biology				
BIOM 6183	Cellular and Molecular Biology of Pain				
BIOM 6193	Paleommalogy				
BIOM 6214	Advanced Topics in Medical Biochemistry				
BIOM 6233	Enzyme Analysis				
BIOM 6243	Human Nutrition				
BIOM 6263	Techniques in Molecular Biology				
BIOM 6333	Immunology				
BIOM 6343	Microbial Physiology				

BIOM 6353	Molecular Virology
BIOM 6363	Immunobiology of Infectious Disease
BIOM 6413	Graduate General Pathology and Laboratory Medicine
BIOM 6523	Cardiovascular Physiology and Pharmacology
BIOM 6543	Environmental Toxins in the Brain
BIOM 6583	Neuroinflammation
BIOM 6613	Environmental Physiology
BIOM 6643	Neurophysiology
BIOM 6653	Graduate Seminar In Signal Transduction
BIOM 6663	Neuroethology
BIOM 6673	Genomics
BIOM 6705	Advanced Gross Anatomy
BIOM 6723	Field Techniques in Vertebrate Paleontology
BIOM 6733	Human Microbiome in Health and Disease
BIOM 6743	Foundations in Medical Genetics, Molecular Biology and Development
BIOM 6752	Foundations in Medical Cell and Tissue Biology
BIOM 6762	Foundations in Medical Biochemistry
BIOM 6771	Foundations in Medical Pharmacology
BIOM 6781	Foundations in Medical Immunology
BIOM 6793	Foundations in Medical Microbiology
BIOM 6800	Critical Readings in Biomedical Sciences
BIOM 6810	Structure and Function of the Human Cardiovascular System
BIOM 6820	Structure and Function of the Human Gastrointestinal/Hepatic System
BIOM 6830	Biomedical Perspectives on Human Hematology
BIOM 6840	Structure and Function of the Human Musculoskeletal System
BIOM 6843	Vertebrate Osteology
BIOM 6850	Structure and Function of the Human Renal System
BIOM 6860	Structure and Function of the Human Reproductive Systems and Reproductive Biology
BIOM 6870	Structure and Function of the Human Respiratory System
BIOM 6880	Biomedical Perspectives on Psychiatry
BIOM 6810	Structure and Function of the Human Cardiovascular System
BIOM 6820	Structure and Function of the Human Gastrointestinal/Hepatic System
BIOM 6830	Biomedical Perspectives on Human Hematology
BIOM 6840	Structure and Function of the Human Musculoskeletal System
BIOM 6850	Structure and Function of the Human Renal System

	BIOM 6860	Structure and Function of the Human Reproductive Systems and Reproductive Biology	
	BIOM 6870	Structure and Function of the Human Respiratory System	
	BIOM 6880	Biomedical Perspectives on Psychiatry	
	BIOM 6900	Structure and Function of the Human Endocrine System	
	BIOM 6910	Structure and Function of the Human Nervous System	
	BIOM 6933	Cornerstones of Graduate Biomedical Sciences	
	BIOM 6943	Advanced Vertebrate Paleontology	
	BIOM 6952	Paleohistology Techniques	
	BIOM 6962	Evolutionary Biomechanics	
	BIOM 6972	Role of Nicotinic Acetylcholine Receptors in Neuropsychiatric Disorders	
Hours Subtotal		26	
0	ther Requirements		
R	Research Proposal		
Q	ualifying Exam		
D	issertation Defense		
Т	otal Hours		60

Graduate College Doctor of Philosophy (PhD) Requirements

Learn more about Graduate College 2023-2024 Doctor of Philosophy (PhD) Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.