

# BIOMEDICAL SCIENCES - MINOR

The Biomedical Sciences minor consists of coursework related to and directed toward the understanding of health and disease. Students are encouraged to select courses in consultation with an academic advisor.

Students applying for a BIMS minor must meet with an advisor to declare the minor. Successful completion of the minor will be certified by a degree audit in Howdy during the semester of the student's graduation. The minor will be recognized after graduation on the student's transcript, but not on the student's diploma.

Requirements to apply for a BIMS minor:

- Must have a 2.0 Texas A&M GPA
- Must have completed CHEM 119 with a minimum grade of C if taken at Texas A&M or a minimum grade of B if taken at a community college
- Must be declared before 75 hours are completed

## Program Requirements

A selection from among the following courses will constitute a minor field of study. The following 15 hours of course work are required. Proper classification must be met for the course level being taken. A minimum of 9 hours must be 3/400-level coursework. A minimum of 6 hours at the 3/400 level must be BIMS/VIBS/VTPB/VTPP/VLCS/VSCS prefix coursework. A total of 9 hours minimum must be BIMS/VIBS/VTPB/VTPP/VLCS/VSCS prefix coursework.

Code	Title	Semester Credit Hours
BIMS 320/ GENE 320	Biomedical Genetics	3
VTPB 221	Great Diseases of the World	3
BIMS Directed Elective <sup>1</sup>		9
Select 9 hours from the following:		
ANSC 107 & ANSC 108	General Animal Science and General Animal Science Laboratory	
ANSC 210	Companion Animal Science	
ANSC 303/ NUTR 303	Principles of Animal Nutrition	
ANSC 318	Animal Feeds and Feeding	
ANSC 320	Animal Nutrition and Feeding	
ANSC 326/ FSTC 326	Food Bacteriology	
ANSC 327/ FSTC 327	Food Bacteriology Lab	
BICH 412	Biochemistry Laboratory I	
BICH 414	Biochemical Techniques I	
BIMS 110	One Health in Action	
BIMS 125	Animals in Society	
BIMS 201	Introduction to Phenotypic Expression in the Context of Human Medicine	
BIMS 289	Special Topics in...	

BIMS 291	Research
BIMS 380	Equine-Assisted Activities and Therapies - Best Practices
BIMS 405/ GENE 405	Mammalian Genetics
BIMS 421/ GENE 421	Advanced Human Genetics
BIMS 484	Biomedical Science Field Experience
BIMS 485	Directed Studies
BIMS 489	Special Topics in...
BIMS 491	Research
ENTO 208	Veterinary Entomology
ENTO 209	Veterinary Entomology Laboratory
ENTO 210	Global Public Health Entomology
ENTO 423	Medical Entomology
ENTO 431/ FIVS 431	The Science of Forensic Entomology
ENTO 432/ FIVS 432	Applied Forensic Entomology
GENE 431/ BICH 431	Molecular Genetics
or GENE BICH 432	or Laboratory in Molecular Genetics
NUTR 222	Nutrition for Health and Health Care
URPN 370	Health Systems Planning
VIBS 111	Biodefense, Biosecurity and Bioterrorism
VIBS 201/ NRSC 201	History of Neuroscience
VIBS 204	Fundamentals of Food Toxicology and Safety
VIBS 210	Twenty-first Century Global One Health
VIBS 211	Twenty-first Century Biological Threats
VIBS 222	Great Poisonings of the World
VIBS 243	Introductory Mammalian Histology
VIBS 277/ NRSC 277	Essential Neuroscience - From Molecules to Nervous Systems
VIBS 285	Directed Studies
VIBS 289	Special Topics in...
VIBS 343	Histology
VIBS 401	Developmental Neurotoxicology
VIBS 404	Food Toxicology and Safety
VIBS 407/ NRSC 407	Core Ideas in Neuroscience
VIBS 411	Tumor Cell Biology and Carcinogenesis
VIBS 413	Introduction to Epidemiology
VIBS 422	Endocrine Toxicology
VIBS 424/ VTPP 424	Biomedical Neuroendocrinology and Endocrine Disorders
VIBS 426/ ENTO 426	Methods in Vector-Borne Disease Ecology

VIBS 450/	Mammalian Functional
NRSC 450	Neuroanatomy
VIBS 485	Directed Studies
VIBS 489	Special Topics in...
VLCS 422	Equine Disease and Epidemiology
VLCS 485	Directed Studies
VSCS 485	Directed Studies
VTPB 212	Genetics in the News
VTPB 285	Directed Studies
VTPB 301/	Wildlife Diseases
RWFM 309	
VTPB 303	Medical Communication in the International Community
VTPB 407	Advanced Veterinary Microbiology Laboratory
VTPB 408	Clinical Microbiology
VTPB 409	Introduction to Immunology
VTPB 410	Cell Mechanisms of Disease
VTPB 411	One Health and Tropical Ecology
VTPB 415	Immunogenetics and Comparative Immunology
VTPB 421	Infectious Diseases of Humans and Animals
VTPB 438	Biomedical Virology
VTPB 460	Mammalian Cell Pathobiology
VTPB 485	Directed Studies
VTPB 487/	Biomedical Parasitology
BIOL 487	
VTPB 489	Special Topics in...
VTPP 285	Directed Studies
VTPP 291	Research
VTPP 323	Physiology of Domestic Animals
VTPP 401/	History of Human and Veterinary
BMEN 400	Medicine in Europe
VTPP 420	Applied Pharmacology
VTPP 424/	Biomedical Neuroendocrinology and
VIBS 424	Endocrine Disorders
VTPP 425	Pharmacology
VTPP 429	Introduction to Toxicology
VTPP 438	Analysis of Genomic Signals
VTPP 452	Fetal and Embryo Physiology
VTPP 485	Directed Studies
VTPP 489	Special Topics in...
VTPP 491	Research

**Total Semester Credit Hours** **15**

<sup>1</sup> BIMS Directed Electives are taken in consultation with a BIMS Academic Advisor. 6 of these hours must have BIMS/V--prefix at the 3/400 level.

Note: For the 15- hour minor, a minimum of 9 hours must be 3/400-level coursework must be completed. A minimum of 9 hours must be BIMS/ VIBS/VTPB/VTPP/VLCS/VSCS prefix coursework.

Must have a 2.0 TAMU GPA to declare the minor. Must have CHEM 119 with a grade of C if taken at TAMU or a minimum grade of B if taken at

a two-year institution to declare the minor. Students must declare the minor prior to completing 75 hours. Students must maintain a minimum GPA of 2.000 in this minor area.