

VETERINARY AND BIOMEDICAL SCIENCES, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Description

This major provides a strong background in those biological and physical sciences underlying contemporary veterinary science and establishes a sound foundation for graduate-level study in veterinary and related biomedical disciplines. The curriculum provides students with a deep understanding of the foundational sciences while also highlighting the science of animal and human health. Students have the option to focus their area of study through the selection of 400-level supporting courses in a variety of rigorous scientific areas including but not limited to animal health, human and comparative studies, biology, biochemistry, neurobiology, immunology, toxicology, and wildlife science.

The mission of the Veterinary and Biomedical Sciences major is to prepare students for admission to veterinary school and/or entry into graduate programs. The major can also prepare students for post-baccalaureate employment in many science related fields including biomedical research and development. Students may prepare for employment or matriculation into graduate programs in disciplines such as bioinformatics, genomics, genetics, animal nutrition, animal reproduction, microbiology, animal health, human health, physiology, biochemistry, agriculture, pharmaceuticals, biotechnology, and comparative medicine.

What is Veterinary and Biomedical Sciences?

Veterinary and Biomedical Sciences major provides a hands-on, science-heavy preparation for veterinary school and other careers in the research and allied health professions like lab and field research, industry, pharmacovigilance, pharmaceuticals, biomedical development and sales, and beyond. The Penn State Veterinary and Biomedical Sciences major resides in a small, tight-knit community united by a fascination with animal health and well-being. The major has board-certified and clinically experienced veterinarians on faculty who are experienced in various fields of clinical medicine, research, and specialties who guide, instruct, and advise VBSC students. The program also boasts world-class researchers studying topics like cancer, infectious diseases, parasitic diseases, and metabolic diseases.

You Might Like this Program If...

- an aspiring veterinarian, physician, biomedical researcher, or other biomedical professional
- interested in One Health, public health, veterinary public health, or animal health
- passionate about science and animal health
- fascinated with applying scientific principles to real-life situations and case-based study
- focused on issues like emerging infectious diseases, food and agricultural safety and production, and control and prevention of animal diseases