

Certificate in Biomedical Sciences

The Certificate in Biomedical Sciences will prepare pre-professional, (pre-veterinary), students for success as a professional student in veterinary medicine and for a career in veterinary medicine. The certificate is relevant to all biomedical based professional programs including pre-medicine and pre-health professions. The courses required encompass biomedical terminology, cell biology, anatomy, and physiology.

Requirements

A total of 15 credit hours in online BIOMED is required. Thirteen credit hours are in core courses and 2 credit hours in electives.

Required Core Courses (13 Hours)

BIOMED 2110	Biomedical Terminology	3
BIOMED 3219	Elements of Comparative Anatomy	3
BIOMED 4XXX	Comparative Physiology (in development)	3
BIOMED 4333	Veterinary Cell Biology	4

The list of elective courses is subject to change.

Electives (2 Hours)

BIOMED 1010	Biomedical Career Explorations	1
BIOMED 2111	Veterinary Medical Terminology	1
BIOMED 2120	Essentials of Animal Handling and Physical Restraint	2
BIOMED 2130	Introduction to Veterinary Anatomy and Physiology	3
BIOMED 2230	Animal Sanitation and Disease Prevention	3
BIOMED 3000	Specialty Careers for Veterinary Technicians	1
BIOMED 3100	Biomedical Pathophysiology	3
BIOMED 3300	Animal Welfare and Ethics	3
BIOMED 3400	Domestic Animal Behavior in Veterinary Practice	2
BIOMED 4001	Topics in Biomedical Sciences (Canine and Feline Nutrition)	3
BIOMED 4110	Veterinary Cytology	2
BIOMED 4120	Principles of Toxicology	3
BIOMED 4210	Animal Issues in Disasters	1
BIOMED 4300	Clinical Veterinary Neurology	3
BIOMED 4320	Fundamentals of Small Animal Emergency and Critical Care	3
BIOMED 4400	Veterinary Surgical Nursing	3
BIOMED 4410	Small Animal Physical Rehabilitation	3
BIOMED 4500	Equine Critical Care and Nursing	3
BIOMED 4510	Equine Clinical Anatomy: Forelimbs	1

Minimum Academic Standards: Satisfactory completion of a certificate requires a grade point average of at least 3.0 in BIOMED courses and no grade less than a C in all courses.