

# Pre-Veterinary Medicine

## Bachelor of Science

The pre-veterinary medicine major combines coursework from the biomedical sciences, wildlife biology, and work in wildlife rehabilitation to prepare our students to pursue a professional degree in veterinary medicine. This emphasis on holistic approaches to animal care allows our students to understand animal well-being from a variety of perspectives, from the molecular mechanisms that govern disease to best practices for treating those diseases. The major especially stresses the importance of experiential learning through laboratories, field work, animal care, internships, and independent study to allow our students to develop a repertoire of valuable skills and knowledge. This program is meant to fulfill the prerequisites for most Doctor of Veterinary Medicine (DVM) programs.

Pre-veterinary medicine includes coursework in biology, microbiology, chemistry, organic chemistry, animal sciences, and animal care practices. Students who complete their veterinary medicine degree are qualified to seek veterinarian jobs in animal hospitals, clinics, rehabilitation centers, zoos, aquaria, at agricultural and research centers, and in public health.

### Pre-veterinary Medicine Requirements:

- General Education Requirements
- Bachelor of Science Requirements
- Major Requirements
- Program Entrance Requirements

### Total Credit Hours | 120

### General Education Requirements

See details in the General Education section of the catalog.

### Bachelor of Science Requirements

6-8 additional hours in math or science, not duplicating core coursework, taken from:

Prefix	Course Number
BIO	101, 102, 105, 114, 115, 121, 122
CHM	101, 111
MAT	111, 112, 116, 117, 215, 220, 227
PHY	101, 111, 112
SCI	211

### Core Requirements | 73 Credit Hours

Class Name	Credit Hours
BIO 105 Medical Terminology	3 credit hours
BIO 114 Introduction to Biology I	4 credit hours

Class Name	Credit Hours
BIO 115 Introduction to Biology II	4 credit hours
BIO 211 Zoology	4 credit hours
BIO 311 Microbiology and Immunology	4 credit hours
BIO 351 Comparative Vertebrate Anatomy	4 credit hours
BIO 353 Human and Animal Nutrition	3 credit hours
BIO 361 Genetics	4 credit hours
BIO 461 Cell Biology	4 credit hours
BIO 467 Biochemistry	4 credit hours
BIO 499 Senior Research for Biology Majors	3 credit hours
CHM 111 General Chemistry I	4 credit hours
CHM 112 General Chemistry II	4 credit hours
CHM 211 Organic Chemistry I	4 credit hours
CHM 212 Organic Chemistry II	4 credit hours
MAT 117 Calculus	5 credit hours
MAT 215 Statistics	3 credit hours
PHY 111 Physics I	4 credit hours
PHY 112 Physics II	4 credit hours

### Clinical Experience Requirements | 7 Credit Hours

Class Name	Credit Hours
BIO 281 Introduction to Wildlife Rehabilitation	3 credit hours
BIO 292 Advanced Clinical Rehabilitation	4 credit hours

### Organismal Sciences Requirements | Choose one: 3–4 credit hours

Class Name	Credit Hours
BIO 441 Ornithology	4 credit hours
BIO 443 Herpetology	4 credit hours
BIO 445 Mammalogy	4 credit hours
BIO 451 Animal Behavior	3 credit hours

### Program Entrance Requirements

- Students who declare pre-veterinary medicine as their major will meet with their assigned advisors to discuss their academic progress during their first semester at Lees-McRae College.
- A student must maintain a cumulative GPA of 3.0 to be considered for admission into the pre-veterinary medicine program.
- At the conclusion of their sophomore year, students will apply for admission into the pre-veterinary medicine program. Students will need to submit the following materials:
  1. A personal statement explaining why he/she is pursuing veterinary school.
  2. A list of veterinary schools to which the student would like to apply, and the corresponding prerequisites for those programs.

3. Evidence of logged clinical observation hours (beyond experience at the May Wildlife Rehabilitation Center).
  4. An academic plan detailing the courses that will be taken during the remaining years in order to complete the pre-veterinary medicine degree at Lees-McRae.
- Each student will interview with the pre-veterinary program professors and will be notified of their admission status into the program thereafter.
  - Students who are denied admission into the pre-veterinary medicine program will have an in-depth meeting with their academic advisor in order to determine how those students can be successful in their future academic endeavors.