



Pre-Veterinary Medicine Concentration

Animal and Veterinary Sciences B.S. Degree

The Pre-Veterinary Program at Eastern Kentucky University is administered by the Department of Agriculture. Students in the Pre-Veterinary program will take courses focused in animal science, biology, chemistry, mathematics, and physics. Many of the courses will include laboratories where students will receive hands-on training in animal handling and research. Animal science courses will include opportunities for students to work directly with both large and small animals. Hands-on-training is reinforced through practicums at the university farms and through cooperative education. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide every career opportunity. Our department's unique balance of these areas has lead EKU to have one of the highest veterinary school acceptance rates in Kentucky.

Although Kentucky does not have a veterinary school, the state has 38 contract seats at Auburn University College of Veterinary Medicine, and 2 seats at Tuskegee University College of Veterinary Medicine. Admission to veterinary school is highly competitive and requires a strong GPA along with experience in the veterinary profession. Students will work directly with a knowledgeable faculty advisor throughout their academic career and the application process.

Tips for success in the pre-vet program:

- **Meet regularly with your academic advisor.** There is no standard list of Vet School requirements, each schools requirements will differ slightly. Your advisor can guide you to be sure specific program requirements are fulfilled.
- **Dedicate yourself to good study habits.** Attend and participate in all lectures and laboratories. Veterinary School is highly competitive. A GPA 3.4 or higher will give you a competitive edge.
- **Work with a veterinarian.** An exhibited depth and breadth of veterinary experience is necessary to help you become familiar with the field. This experience will also help develop the working relationship needed for a letter of recommendation that will be invaluable in preparing your application for acceptance to veterinary school.
- **Get involved.** Demonstrated time management, leadership, and teamwork skills are important to acceptance and success in the profession. The Department of Agriculture supports the Pre-Vet Club, Delta Tau Alpha Agriculture Honor Society, and several other student organizations that provide opportunities for extracurricular learning/fun experiences.

Career Opportunities

The Pre-Veterinary curriculum prepares students to meet entrance requirements for veterinary schools throughout the United States and abroad. The rigorous coursework also prepares students to pursue advanced degrees in veterinary science, animal science, human medicine, biomedical science, biotechnology, genetics, nutrition, microbiology, reproduction, behavior, or any of the other basic sciences. Students may also choose to pursue careers in pharmaceutical sales for marketing and distribution of medical supplies or in research working as a laboratory technician to assist in the collection and analysis of research data for government, university, or private laboratories.

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the University enterprises and through cooperative education are further utilized to reinforce the practical application of scientific theory. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed in the ever-changing 21st Century environment.



Department of Agriculture
School of Applied Sciences and Technology
College of Business & Technology (2020-2021)

Department Facilities

The Pre-Veterinary Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, ag mechanics shop, animal and plant science biotechnology laboratories equipped for research in nutrition and genetics. There are also garden displays, turf plots, and 5 greenhouses.

Students will have the unique opportunity to work directly with animals and observe practical applications of agricultural practices at EKU's Meadowbrook Farm. Meadowbrook Farm consists of a 720-acre laboratory which supports our instructional and practicum "hands on" learning program. Located only eight miles from campus with an on-site classroom, the farm gives students an opportunity to experience all aspects of modern production in beef, dairy, sheep, swine, and crop enterprises. The Stateland Dairy features a state of the art robotic milking system, where registered Holstein and Brown Swiss cow's milk themselves. Other enterprises include both fall and spring calving beef cow herd, beef backgrounding operation, grazing hair sheep flock, farrow to finish swine facilities, and crop production that produces forage and grain for the livestock. Students will work directly with faculty and staff in all areas throughout their academic career.

For More Information

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Find us on Facebook and Twitter @EKUAgriculture



Pre-Veterinary Concentration

Freshman (1st Semester) 15-17 hrs

BTO 100 Orientation* (1 hr)
AGR 125 Principles of Animal Science
AGR 126 Animal Science Lab (1 hr)
E-1A ENG 101 English I
E-2 MAT 120, 122, 211 or 234 (3-5 hrs)
BIO 112 Biology (4 hrs)

Freshman (2nd Semester) 16 hrs

E-1B ENG 102 English II
E-1C Communication
E-5A History
E-5B ECO 120 Economics
E-4B CHE 111 Chemistry I
E-4B CHE 111L Chemistry I Lab (1 hr)

Sophomore (1st Semester) 15 hrs

AGR 321 Feeds & Feeding (4 hrs)
CHE 112 Chemistry II
CHE 112L Chemistry Lab (1 hr)
E-4A BIO 111 Biology (4 hrs)
E-3B Humanities

Sophomore (2nd Semester) 15 hrs

CHE 361 Organic Chemistry I
CHE 361L Organic I Lab (1 hr)
AGR Animal Science
AGR Production (4 hrs)
AGR 349 Co-op (1 hr)
E-6 Diversity & Writing Intensive

Junior (1st Semester) 15 hrs

AGR 305 Professional Skills Seminar (1 hr)
AGR 308 Agricultural Economics
AGR 349 Co-op (1 hr)
CHE 362 Organic Chemistry II
CHE 362L Organic II Lab (1 hr)
Science Elective*
E-3A Arts

Junior (2nd Semester) 15 hrs

AGR 421 Animal Nutrition
AGR 349 Co-op (1 hr)
AGR Production (4 hrs)
Science Elective *(4 hrs)
E-6 Diversity

Senior (1st Semester) 14 hrs

AGR 304 Pest Management (4 hrs)
AGR Animal Science
AGR Ag Business
Free Elective (2 hrs)
BIO 331 Cell Biology

Senior (2nd Semester) 15 hrs

AGR 411 Senior Seminar (1 hr)
AGR Animal Science
BTS 400 College to Careers Seminar (0 credit)
AGR 499 or **509** Capstone (3 hrs)
PHY 131 (5 hrs)
Free Elective (3 hrs if needed for 120 total degree hours)

*Science electives include: BIO 315, 320, 348, 546, or PHY 132.

UNIVERSITY GRADUATION REQUIREMENTS

General Education 36 hrs
 Orientation Course (waived for transfers with 30+ hrs.)..... 1 hr
 Total Hours University Graduation Requirements 37 hrs

College Requirements:

AGR 305 (1 hr) and BTS 400 (CR only, no hrs) 1 hr

Core Courses 31-33 hrs

AGR 125, 1216(1), 304(4), 308, 321(4), and 411(1); three hours from 301, 302, 349; one of the following:
 AGR 310, 350, or 440; AGR 499 or 509; two production classes (AGR 255, 326, 327(4), 328(4), 329(4), 332,
 380(4).

Pre-Veterinary 12-13 hrs

AGR 421; select three animal science courses from AGR 312(4), 372, 373, 374, 375, 376, or 377.

Supporting Course Requirement 14 hrs

BIO (GE Element 4) 111(4), 112(4) and CHE (GE Element 4) 111/111L, 112/112L, 361/361L; ECO 120 (GE Element 5B).

Pre-Veterinary Supporting Course Requirement 18-23 hrs

Select one class from MAT (GE Element 2) 120, 122(5), 211, or 234(4); BIO 331, CHE 362/362L; PHY 131(5); select two of the following science electives AGR 374 or BIO 315(4), 320(4), 348, 546(4), CHE 430, PHY 132(5). Courses listed will meet requirements for Auburn College of Veterinary Medicine for students with a Baccalaureate degree prior to starting veterinary school.

Free Electives 0-7 hrs

Total Curriculum Requirements 120-121 hrs