

# College of Veterinary Medicine

**Joseph W. Alexander, D.V.M., M.S., Dean**  
**J. Mack Oyler, D.V.M., Ph.D., Associate**

**Dean**  
**Dan E. Goodwin, D.V.M., Ph.D., Director**  
**of Animal Disease Diagnostic**

**Laboratory**  
**Louie G. Stratton, D.V.M., Ph.D., Director**  
**of the Boren Veterinary Medical**  
**Teaching Hospital**

**Donald D. Holmes, D.V.M., M.S., Director**  
**of Laboratory Animal Resources**

**Lloyd C. Faulkner, D.V.M., Ph.D., Director**  
**of Research**

**Eric I. Williams, F.R.C.V.S., M.S., Director**  
**of Student Affairs**



**T**he primary objective of the College of Veterinary Medicine is to educate veterinarians for private practice. However, the professional curriculum provides an excellent basic medical education in addition to training in diagnosis, disease prevention, medical treatment, and surgery. Graduates are qualified to pursue careers in many facets of veterinary medicine and health-related professions.

## Accreditation

The College has full academic accreditation status approved by the Council on Education of the American Veterinary Medical Association. Accreditation is based on an assessment of ten essential factors, namely, the college's organization, its finances, physical facilities and equipment, clinical resources, library and learning resources, enrollment, admissions, faculty, curriculum, and continuing and post-graduate education.

## Preparatory Requirements

Attainment of the degree of Doctor of Veterinary Medicine requires, at a minimum, six academic years of collegiate training. In preparation for the professional training the student must complete both prescribed and elective collegiate courses. The minimum prescribed preparatory studies, totaling 60 semester hours of course work, can be completed in two calendar years. Most of the entering veterinary medical students in recent years have had three years of preparatory training or a bachelor's degree. It is recommended that the student undertake an appropriate regular bachelor's degree program in the sciences, in the course of which he or she will complete the prerequisites for entry into the College of Veterinary Medicine by the end of at least the third year of preparatory training.

## Admission Requirements

Collegiate course requirements for entry into veterinary medical college may be completed at any accredited university or college. Special pre-veterinary curricula are available at Oklahoma State University through the College of Agriculture and the College of Arts and Sciences. Both colleges offer programs of study in pre-veterinary medical sciences which provide for the award of

a bachelor's degree after the first or second year of veterinary medical studies to those persons who gain early entry into a veterinary medical college.

Requests for information on pre-veterinary medical study programs and applications for admission to such programs should be addressed to the dean of either the College of Agriculture or the College of Arts and Sciences.

Listed below are the *minimum* course prerequisites for consideration for admission to the College of Veterinary Medicine.

*English composition and technical/professional report writing-eight semester credit hours.*

*Chemistry-A minimum of 17 semester credit hours. All chemistry courses must include laboratory work. A minimum of five semester credit hours of organic chemistry is required. The course should be one designed for pre-veterinary, pre-medical and pre-dental students and must include both the aliphatic and aromatic series of organic compounds. A minimum of four semester credit hours of biochemistry (at least three hours lecture and one hour laboratory) is also required.*

*Physics-eight semester credit hours. Physics courses must include laboratory work and the following topics: mechanics, heat, sound, electricity, magnetism, light and modern physics.*

*Mathematics-three semester credit hours. Mathematics courses must include the fundamental operations of algebra, exponents and radicals, simple equations, graphs, simultaneous equations, quadratic equations and logarithms.*

*Biological science-A minimum of 15 semester credit hours. Courses in zoology, botany, microbiology and genetics are required. These courses must include laboratory work. Comprehensive courses in biology will be considered but must be evaluated before credit is accepted.*

## Scholarships

The College has several scholarships which are available to veterinary medicine students, based on academic achievement and financial need. Special scholarships and awards are available for black students enrolled in veterinary medicine or in the pre-veterinary medicine program.

## Veterinary Medical Studies

Entering classes in veterinary medicine are restricted in enrollment and are admitted once yearly at the beginning of the fall term. Applications for admission must be submitted by mid-January.

Applicants who are legal residents of Oklahoma will be given first priority. However, beginning with the academic year 1985-86, up to ten percent of the first-year students may be selected from a pool of nonresident applicants. Questions about residency should be directed to the Office of Admissions, Oklahoma State University. Requests for application materials should be directed to the coordinator, Veterinary Medicine Admissions, College of Veterinary Medicine.

Students are admitted as candidates for the Doctor of Veterinary Medicine degree on the basis of records of academic performance in preparatory studies, standard achievement tests, and personal interviews and references to determine personal characteristics and career motivation.

The veterinary curriculum extends over four calendar years. The first two academic years conform to the normal semester system of the University. The last two academic years are continuous, the fourth starting shortly after the third, and organized into six-week periods, with sectioning of the classes to provide for lower faculty-student ratio and for more efficient utilization of clinical facilities.

## Academic Advising

The College has a student advisory system which was initiated in 1974. Participation is voluntary for the adviser and the student. Each first year student is given an opportunity to select an adviser from a list compiled at the beginning of each academic year. The director of Student Affairs is an adviser-at-large for all students.

## Departmental Clubs and Honor Societies

American Veterinary Medical Association, Student Chapter

Society of Phi Zeta, Nu Chapter (academics and research)

## Physiological Science

Professor and Interim Head, James E. Breazile, D.V.M., Ph.D.

## Graduate Programs

The Department of Physiological Science offers a program of study leading to the degrees of Mas-

ter of Science and Doctor of Philosophy in physiological science. The program is designed to prepare students for teaching and research positions in universities or colleges; research positions in governmental laboratories, foundations or industry and related positions. Areas of concentration offered are anatomy, pharmacology, physiology and toxicology.

**Application Procedure.** Applications are accepted at any time; however, in order to be considered for assistantships applications for enrollment in the summer session or fall semester should be received by February 15, and applications for enrollment in the spring semester should be received by September 15.

Review and formal acceptance or rejection of applications for admission to the graduate program in physiological science is delegated to the departmental graduate education committee. For admission to the graduate program the candidate must possess a bachelor's degree or higher in a science-related field with course work in mathematics, chemistry and physics. Criteria for recommending admission are:

1. For candidates whose highest earned degree is the baccalaureate, the sum of verbal and quantitative scores on the Graduate Record Examination will be multiplied by the grade-point average on a four point scale, for the last 60 hours of undergraduate course work. The product score must be 3000 or greater for M.S. degree candidates or 3150 or greater for Ph.D. degree candidates for admission without qualification. Students who fail to meet these criteria may be considered for admission on a provisional basis.
2. For candidates with advanced degrees, medical degrees or degrees earned outside the United States, admission status will be evaluated on an individual basis.

Applicants are encouraged to select a major professor prior to admission to the departmental program. When this is not possible, two temporary advisers will be assigned by the graduate education committee. A permanent adviser should be chosen as soon as possible. When the student's graduate program adviser is determined, the department head in consultation with the adviser and the graduate education committee, will appoint a graduate advisory committee. This committee will consist of not fewer than three graduate faculty members for students pursuing the master's degree. Two of the committee members must be members of the graduate faculty of the Department of Physiological Science. For students pursuing the doctoral degree, a graduate advisory committee of not less than four graduate faculty members, one of whom must be from outside the departmental graduate faculty, will be appointed by the dean of the Graduate College upon recommendation of the graduate education committee. Functions of the advisory committee are described in the "Graduate College" section.

**The Master of Science Degree.** This degree may be earned in one of two ways: (1) completion of a total of 30 semester credit hours including six credit hours relating to a thesis. The thesis must be formally submitted to the Graduate College for partial fulfillment of the requirements for the degree. (2) completion of a total of 32 semester credit hours including two credit hours in research and thesis. A report must be submitted to the Graduate College for partial fulfillment of the requirements for the degree. The student must present his or her thesis or report in a seminar to

the Department and pass a final oral examination at that time. The courses forming the student's program are determined by the student's graduate advisory committee in conference with the student.

**The Doctor of Philosophy Degree.** Students may enter the doctoral program without first acquiring a master's degree. The course requirement for the Ph.D. is 90 semester credit hours including a minimum of 30 credits for research and thesis. The courses required are determined by the graduate advisory committee in conference with the student. The 90 semester credit hours may include all or a part of the work completed for a master's degree. The student must pass written and oral qualifying examinations. A thesis or doctoral dissertation based on original research must be accepted by the graduate advisory committee and submitted to the Graduate College. The student must present his or her dissertation in a seminar to the department and pass a final oral examination at that time.

**Minor in Physiological Science.** A graduate student working toward a Ph.D. who wishes to declare a minor in physiological science is expected to have a member of the Department on his or her graduate advisory committee, must meet the Graduate College requirements for a minor, and have a minimum of 14 credit hours in physiological science including six credit hours of mammalian physiology (4000 level or higher).

## Veterinary Parasitology, Microbiology and Public Health

Professor and Head, Robert W. Fulton,  
D.V.M., Ph.D.

### Graduate Programs

The Department of Veterinary Parasitology, Microbiology and Public Health offers a program of research and study leading to the degrees of Master of Science and Doctor of Philosophy with specialization in the areas of veterinary helminthology, protozoology, bacteriology, virology, immunology, epidemiology and public health. The program is designed to prepare individuals for careers in teaching and research, and is flexible to meet the needs of the student within the capabilities of the Department and the University.

**Application Procedure.** Applications are accepted at any time; however, all documents must be received prior to March 1 for admission to the summer session, July 1 for the fall semester, and November 1 for the spring semester. Applicants are required to submit scores for the Aptitude Test and Advanced Test in Biology portions of the Graduate Record Examination.

Applicants generally select a major professor before they are admitted to the departmental program. They are urged to correspond with a member of the department's graduate faculty whose interests reflect their own before making application. Information about the faculty's research interests is available upon written request to the Department. After acceptance to the graduate program, the student and the major professor recom-

mend an advisory committee to the dean of the Graduate College to develop a plan of study.

**Prerequisites.** Candidates for admission must possess a bachelor's degree or equivalent, including 30 semester credit hours in biological and physical sciences. An overall grade-point average of 3.00 (on a 4.00 scale) is required for unconditional admission to the program. Students deficient in entrance requirements may be admitted at times on a provisional status.

**The Master of Science Degree.** The M.S. must be earned by either Plan I, with thesis, 30 credit hours, including not more than six credit hours for the thesis, or Plan II, with report, 32 credit hours, including not more than two credit hours for the report. The plan of study will be tailored to meet the student's needs and interests; however, all students must enroll in Seminar (VPARA 6110) for one credit hour, and must pass three credit hours of biochemistry acceptable for graduate credit, and a course in statistical methods. The student must also pass a final oral examination covering the thesis or report and related course work.

**The Doctor of Philosophy Degree.** The Ph.D. requires a total of 90 credit hours beyond the B.S. degree. All Ph.D. students must enroll in Seminar (VPARA 6110) for two hours of graduate credit and, if not already complete, must fulfill the requirements for biochemistry and statistical methods detailed above under "Master of Science Degree." A written and oral qualifying examination is required. Students must prepare a research proposal and complete a dissertation based on original research. The final examination is oral and is based primarily on the dissertation problem although not limited to this subject.

## Veterinary Pathology

Professor and Head, Anthony W. Confer,  
D.V.M., Ph.D.

### Graduate Programs

The Department offers a program of research and study leading to the degrees of Master of Science and Doctor of Philosophy in veterinary pathology. The course work required depends on the needs and background of the individual student. Most persons who undertake a program will have a professional degree in veterinary medicine. The programs, specializing in either anatomic or clinical pathology, are designed to prepare individuals for careers in teaching, research, and service pathology as required to fulfill the requirements of animal disease diagnostic facilities and industry.

**Prerequisites.** It is highly desirable that candidates for admission possess the Doctor of Veterinary Medicine or equivalent degree. Only in exceptional circumstances will applicants not possessing a medical degree be admitted. Such individuals must possess a bachelor's degree or equivalent and a strong background in biological and medical sciences. Approval for admission can be given only by the department head.