

# THE SCHOOL OF VETERINARY MEDICINE BULLETIN • 2008-2009



*dr. Employebord. Collie 1960 Margot Lammir bylam*



 **LSU**  
SCHOOL OF  
VETERINARY  
MEDICINE

# ABOUT THE COVER



The illustration on the front cover is a hand-pulled serigraph by Canadian artist Margo Splane. *Underemployed Border Collie* was an award winner at the 21st International Exhibition on Animals in Art held at the Louisiana State University School of Veterinary Medicine, March 29-April 27, 2008.

# SCHOOL OF VETERINARY MEDICINE BULLETIN

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## STATEMENT OF ACCREDITATION

Louisiana State University and Agricultural & Mechanical College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, doctoral, and professional degrees.

The Commission on Colleges of the Southern Association of Colleges and Schools is the recognized regional accrediting body in the 11 U.S. southern states (Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas, and Virginia) for those institutions of higher education that award associate's, bachelor's, master's, or doctoral degrees. The Commission on Colleges is the representative body of the College Delegate Assembly and is charged with carrying out the accreditation process. The address is 1866 Southern Lane, Decatur, Georgia 30033; telephone 404-679-4500.

The LSU School of Veterinary Medicine is accredited by the Council on Education of the American Veterinary Medical Association.

**This bulletin was compiled and edited by the Office of Academic Affairs and the School of Veterinary Medicine.**

*Effective date of this bulletin • Fall 2008*

The logo for Louisiana State University (LSU), consisting of the letters 'LSU' in a bold, black, sans-serif font.

This School of Veterinary Medicine Bulletin represents a flexible program of the current educational plans, offerings, and requirements that may be altered from time to time to carry out the purposes and objectives of the School and the University. The provisions of this publication do not constitute an offer for a contract that may be accepted by you through registration and enrollment in the University. The University reserves the right to change any provision, offering, or requirement at any time within the student's period of study at the University. LSU further reserves the right to require you to withdraw from the University for cause at any time.

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## Graduate Student Responsibility

As a graduate student, you must assume full responsibility for knowledge of rules and regulations of the Graduate School and departmental requirements concerning your individual degree program. Since requirements and programs are subject to change, you should at all times be aware of current regulations.

## For More Information

If you would like more information about veterinary programs and activities, please write or call the School of Veterinary Medicine, Louisiana State University, Baton Rouge, Louisiana 70803; 225-578-9900, or contact specific offices directly. Several offices are listed below for your convenience:

Veterinary Teaching Hospital & Clinics  
Large Animals • 225-578-9500  
Small Animals • 225-578-9600

Office of Admissions, School of Veterinary Medicine • 225-578-9537

E-mail: [admissions@vetmed.lsu.edu](mailto:admissions@vetmed.lsu.edu)

Office of the Dean, School of Veterinary Medicine • 225-578-9903

[www.vetmed.lsu.edu](http://www.vetmed.lsu.edu)



# CONTENTS

<b>Veterinary School Calendar 2008-09 .....</b>	<b>4</b>	<b>Fees &amp; Financial Aid .....</b>	<b>27</b>
Graduate Calendar 2008-09 .....	5	Application Fee .....	27
The University .....	8	Professional Fees .....	27
Mission .....	9	Graduation Fees .....	27
<b>The School of Veterinary Medicine .....</b>	<b>11</b>	Other Fees .....	27
History .....	11	Fees - Veterinary Medicine Students .....	28
Degrees .....	11	Fees - Graduate Students .....	29
Departments .....	11	Required Fees .....	30
Veterinary Medicine Library .....	12	Payment of Fees .....	32
Veterinary Teaching Hospital & Clinics .....	12	Refund of Fees .....	32
Student and Faculty Code of Ethics .....	13	Veterans' Benefits .....	33
<b>The Professional Program .....</b>	<b>15</b>	Financial Aid .....	33
Admission Requirements .....	15	<b>Student Services .....</b>	<b>38</b>
Residence Classification .....	15	University Housing .....	38
Minimum Prerequisites for Admission .....	16	Dining Plans .....	38
Admission Procedures .....	18	Student Health Center .....	38
Scholastic Regulations .....	19	Student Accident and Sickness	
Pre-exposure Rabies Vaccination .....	21	Insurance Plan .....	39
Professionalism .....	21	Postal Service .....	39
Academic Dishonesty .....	21	<b>Courses of Instruction .....</b>	<b>40</b>
Licensure Requirements .....	21	Course Numbering System .....	40
<b>The Advanced Studies Program .....</b>	<b>24</b>	Professional Courses .....	41
Graduate Academic Programs .....	24	<b>Graduate Courses .....</b>	<b>46</b>
Areas of Specialization .....	24	<b>Faculty .....</b>	<b>51</b>
Admission .....	25		
Financial Assistance .....	25		
Graduate Professional Studies .....	25		



# VETERINARY SCHOOL CALENDAR 08-09

## FALL SEMESTER › 2008

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### August

- 11 Block 4, Phase II begins 9a.m.
- 15-20 First Year Orientation
- 18 SVM Fall Semester begins
- 18 Classes begin, Years II and III
- 20 Family Orientation and Coating Ceremony
- 21 Classes begin, Year I

### September

- 1 Labor Day Holiday
- 2 Classes resume, Years I, II and III
- 8 Block 5, Phase II begins 9a.m.

### October

- 6 Block 6, Phase II begins 9a.m.
- 9-10 Fall Holiday, Years I-III

### November

- 3 Block 7, Phase II begins 9a.m.
- 17 Fall NAVLE Window begins
- 27-28 Thanksgiving Holiday

### December

- 8 Block 8, Phase II begins 9a.m.
- 12 SVM semester ends
- 13 Fall NAVLE window ends
- 24 Christmas and New Year's Holidays begins

## SPRING SEMESTER › 2009

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### January

- 1 Christmas and New Year's Holidays ends
- 5 Semester begins
- 20 Block 9, Phase II begins 9a.m.
- 19 Martin Luther King, Jr. Holiday

### February

- 5 Year III Phase 1 ends
- 6 Year III Coating Ceremony
- 7 Open House
- 16 Phase 2 begins for Year III; Block 10
- 23-25 Mardi Gras Holidays, Years I and II
- 24 Mardi Gras Holiday for Faculty, Staff and Students

### March

- 16 Block 11, Phase II begins 9a.m.
- 21 Great Rover Road Run
- 28 "Animals in Art" Show Opening Reception, SVM Library
- 28 "Animals in Art" Show Exhibit, SVM Library opens

### April

- 13 Block 12, Phase II begins 9a.m.
- 13-25 Spring NAVLE Window
- 6-10 Spring Break, Years I and II
- 10 Good Friday Holiday
- 26 "Animals in Art" Show Exhibit, SVM Library closes

### May

- 8 Semester ends
- 11 Block 1, Phase II begins 9a.m.
- 11 SVM Commencement

## SUMMER TERM › 2009

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### June

- 8 Block 2, Phase II begins 9a.m.

### July

- 4 Independence Day Holiday
- 13 Block 2, Phase II begins 9a.m.

# GRADUATE CALENDAR 08-09

## FALL SEMESTER • 2008

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### August

- 1 Final date to apply online to the Graduate School for the fall semester
- 14-15 International Student Orientation
- 18-21 Freshman & Transfer Orientation
- 25 Classes begin, 7:30 a.m.

### September

- 1 Labor Day holiday
- 2 Classes resume, 7:30 a.m.
- 2 Final date for dropping courses without receiving a grade of "W"
- 4 Final date for adding courses for credit and making section changes
- 4 Final date for adding thesis and dissertation research; final date for "degree only" registration
- 5 Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at fall commencement
- 12 Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at fall commencement
- 12 Final date for submitting to Graduate School general examination reports for doctorates to be awarded at spring commencement

### October

- 8 Fall holiday begins, 10:00 p.m.
- 13 Classes resume, 7:30 a.m.
- 15 Final date for receipt of graduate admission applications for spring semester without paying \$25 late fee
- 15 Final date for international applicants residing outside the U.S. to apply to the Graduate School for the spring semester
- 13-18 Midsemester exams
- 21 Midsemester grades due, 9:00 a.m.
- 26 Course scheduling for spring semester,

spring intersession, and summer term begins, 5:00 p.m.

### November

- 7 Final date for resigning from the University and/or dropping courses
- 7 Final date to request rescheduling a final examination when three examinations are scheduled in 24 hours
- 7 Final date for submitting to Graduate School the "Program of Study" for the current semester to be counted toward the doctoral residence requirement
- 14 Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections (noon deadline)
- 26 Thanksgiving holiday begins, 10:00 p.m.

### December

- 1 Classes resume, 7:30 a.m.
- 3-7 Concentrated study period (no meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs)
- 6 Classes end
- 8-13 Final examinations
- 16 Final grades (degree candidates) due, 9:00 a.m.
- 17 Final grades (non-degree candidates) due, 9:00 a.m.
- 19 Commencement

## WINTERSESSION • 2008

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### December

- 15 Classes begin, 7:30 a.m.
- 15 Final date for dropping courses without receiving a grade of "W"
- 16 Final date for adding courses for credit and making section changes
- 23 Final date for resigning from the University and/or dropping courses

23 Winter holiday begins, 10:00 p.m.

### January

2 Classes resume, 7:30 a.m.  
5 Classes end  
6 Final examinations  
8 Final grades due, 9:00 a.m.

## SPRING SEMESTER 2009

### January

1 Final date to apply online to the Graduate School for the spring semester  
5 International Student Orientation  
6-8 Freshman & Transfer Orientation  
12 Classes begin, 7:30 a.m.  
19 Martin Luther King Day holiday  
20 Classes resume, 7:30 a.m.  
20 Final date for dropping courses without receiving a grade of "W"  
22 Final date for adding courses for credit and making section changes  
22 Final date for adding thesis and dissertation research; final date for "degree only" registration  
23 Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at spring commencement  
30 Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at spring commencement  
30 Final date for submitting to Graduate School general examination reports for doctorates to be awarded at summer commencement

### February

23-25 Mardi Gras holiday  
26 Classes resume, 7:30 a.m.

### March

2-6 Midsemester exams  
10 Midsemester grades due, 9:00 a.m.  
27 Final date for resigning from the University and/or dropping courses  
27 Final date to request rescheduling a final examination when three examinations are scheduled in 24 hours  
29 Course scheduling for summer interses-

sion, fall semester, and wintersession begins, 5:00 p.m.

### April

3 Final date for submitting to Graduate School the Program of Study for the current semester to be counted toward the doctoral residence requirement  
6-12 Spring Break  
13 Classes resume, 7:30 a.m.  
17 Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including the Graduate School corrections corrections (noon deadline)  
29 Concentrated study period begins. No meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs

### May

2 Classes end  
3 Concentrated study period ends  
4-9 Final exams  
12 Final grades (degree candidates) due, 9:00 a.m.  
13 Final grades (non-degree candidates) due, 9:00 a.m.  
15 Final date for receipt of graduate admission applications for summer term or fall semester without paying \$25 late fee  
15 Final date to apply online to the Graduate School for the summer term  
15 Final date for international applicants residing outside the U.S. to apply to the Graduate School for the summer term and fall semester  
15 Commencement

## SPRING INTERSESSION • 2009

### May

14 Classes begin  
14 Final date for dropping courses without receiving a grade of "W"  
15 Final date for adding courses for credit and making section changes  
26 Final date for resigning from the University and/or dropping courses  
29 Classes end

30 Final examinations

## June

2 Final grades due, 9:00 a.m.

## SUMMER TERM ▸ 2009

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### Session A

#### June

- 1 International Student Orientation
- 2-4 Freshman & Transfer Orientation
- 8 Classes begin, 7:30 a.m.
- 10 Final date for dropping courses without receiving a grade of "W"
- 11 Final date for adding courses for credit and making section changes
- 11 Final date for adding thesis and dissertation research; final date for "degree only" registration
- 12 Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at summer commencement
- 12 Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at summer commencement
- 12 Final date for submitting to Graduate School general examination reports for doctorates to be awarded at fall commencement
- 29 Midsemester examination period begins

#### July

- 1 Midsemester examination period ends
- 3 Independence Day holiday
- 6 Classes resume, 7:30 a.m.
- 7 Midterm grades due, 9:00 a.m.
- 10 Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections (noon deadline)
- 14 Final date for resigning from the University and/or dropping courses
- 27 Classes end
- 28 Concentrated study day
- 29-30 Final examination period

### August

- 4 Final grades (degree candidates) due, 9:00 a.m.
- 5 Final grades (non-degree candidates) due, 9:00 a.m.
- 7 Commencement

### Session B

(See Session A for Graduate School deadlines.)

#### June

- 1 International Student Orientation
- 2-4 Freshman & Transfer Orientation
- 29 Classes begin, 7:30 a.m.

#### July

- 1 Final date for dropping courses without receiving a grade of "W"
- 2 Final date for adding courses for credit and making section changes
- 3 Independence Day holiday
- 6 Classes resume, 7:30 a.m.
- 22 Final date for resigning from the University and/or dropping courses
- 31 Classes end

### August

- 1 Final exams
- 4 Final grades (degree candidates) due, 9:00 a.m.
- 5 Final grades (non-degree candidates) due, 9:00 a.m.
- 7 Commencement

## SUMMER INTERSESSION ▸ 2009

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### August

- 3 Classes begin, 7:30 a.m.
- 3 Final date for dropping courses without receiving a grade of "W"
- 4 Final date for adding courses for credit and making section changes
- 11 Final date for resigning from the University and/or dropping courses
- 14 Classes end
- 15 Final exams
- 18 Final grades due, 9:00 a.m.

# THE UNIVERSITY

LSU today holds a prominent position in American higher education and is committed to meeting the challenge of pursuing intellectual development for its students, expanding the bounds of knowledge through research, and creating economic opportunities for Louisiana. LSU is in a state of dynamic transformation—changing and evolving to meet the needs of its students, faculty, and the people of Louisiana. LSU 2010, the national flagship agenda, brings into focus the University's commitment to excellence at every level. The goal of this agenda is to have LSU reach the upper tier of national prominence by the year 2010, the University's 150th anniversary.

LSU, one of only 21 universities nationwide designated as a land-grant, sea-grant, and space-grant institution, also holds the Carnegie Foundation's Doctoral/Research-Extensive designation. LSU's instructional programs include 197 undergraduate and graduate/professional degrees.

The University attracts about 15 percent of the state's total enrollment in higher education, and LSU students come from many ethnic and religious backgrounds. The student body consists of more than 30,500 students from 50 states and approximately 120 foreign countries. Although the average age of undergraduates is 21, many older students also pursue degrees at LSU. The student body is 52 percent women and 48 percent men.

Since its first commencement in 1869, LSU has awarded more than 194,000 degrees. The University produces about 26 percent of Louisiana's bachelor's graduates, approximately 23 percent of the master's graduates, and about 55 percent of the doctoral graduates. In 2005-06, LSU awarded 5,799 degrees.

With more than 170,000 alumni, LSU ranks in the top 10 percent in the nation in number of graduates. Its alumni have distinguished themselves in politics, agriculture, business, education, engineering, science, the arts, sports, and entertainment.

The University is a member of the American Council on Education, an organization of accredited post-secondary educational institutions founded in 1918; the National Association of State Universities and Land-Grant Colleges, founded in 1962 to represent the major public universities and land grant institutions; and the American Association of State Colleges and Universities, a select group of leading public institutions of higher education.

LSU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, doctoral, and professional degrees.

The LSU System, composed of nine institutions on 10 campuses in five cities, as well as 10 public hospitals in 10 cities, was established by an act of the Louisiana legislature on February 6, 1965. Other components of the System are the LSU Agricultural Center (headquartered in Baton Rouge); the Hebert Law Center, Baton Rouge; the LSU Medical Center (with two campuses in New Orleans and one in Shreveport and including the Schools of Allied Health Professions, Medicine, Dentistry, and Nursing, and Graduate School); the University of New Orleans and LSU in Shreveport, both four-year institutions; LSU at Alexandria and LSU at Eunice, both two-year institutions; and the Charity Hospital System.

The governing body of the LSU System is the Board of Supervisors, composed of 16 members. Chief administrative officers of the University System are the President, Executive Vice President, Vice President for Academic Affairs, Vice President for Human Resources & Risk Management, and Vice President for Property and Facilities Administration.

The LSU Agricultural Center, including the Louisiana Agricultural Experiment Station and the Louisiana Cooperative Extension Service and International Programs, has more than 200 faculty members who hold joint appointments with LSU. The Experiment Station has research programs in Baton Rouge and at branch stations throughout

Louisiana. The Extension Service disseminates results of research throughout the state through specialists, county agents, and home economists in every parish.

The Paul M. Hebert Law Center, originally established in 1906, became an autonomous unit of the LSU System in 1977. In 1979, it was renamed in honor of Paul M. Hebert, who served as dean from 1937 to 1977.

All references in this catalog to "Louisiana State University," "LSU," or "the University," are to be understood as meaning the institution in Baton Rouge (whose full name is Louisiana State University and Agricultural & Mechanical College). Any reference to the LSU System or to any other institution(s) within the System will be clearly indicated.

## MISSION

As the flagship institution of the state, the vision of Louisiana State University is to be a leading doctoral research–extensive university, challenging undergraduate and graduate students to achieve the highest levels of intellectual and personal development. Designated as a land-grant, sea-grant, and space-grant institution, the mission of Louisiana State University is the generation, preservation, dissemination, and application of knowledge and cultivation of the arts.





# THE SCHOOL OF VETERINARY MEDICINE

## HISTORY

The school admitted its first students to the professional curriculum during the 1973-74 academic year. The original entering class consisted of 36 students, all residents of Louisiana. The school participates in the Southern Regional Education Board's (SREB) program for education in veterinary medicine. Training contracts provide a limited number of entering spaces for qualified candidates from Arkansas. In addition, a limited number of highly qualified, nonresident applicants are admitted under the school's special admission policy.

The school has an excellent faculty supported by modern equipment. The Veterinary Medicine Building, located on the west side of the campus near the Mississippi River, was dedicated in October 1978. It houses three academic departments, the Veterinary Medicine Library, the Veterinary Teaching Hospital & Clinics, and the Louisiana Animal Disease Diagnostic Laboratory. The facilities at the Veterinary Teaching Hospital & Clinics are used as laboratories providing students with introductions to clinical cases and animal disease problems, as well as to methods and techniques used in their solution. The clinical case load at the hospital, in-field services, and herd health programs offer ample opportunities for education of the complete veterinarian.

The school library, located in the Veterinary Medicine Building, provides a resource sufficient to support programs in instruction, research, and service.

The LSU veterinary education program has met all essential requirements for an acceptable school, as established by the Council on Education of the American Veterinary Medical Association, the national accrediting agency for veterinary medical education in the U.S. Full accreditation was granted in 1977 and reaffirmed in 1984, 1991, 1998, and 2005. In addition, a certificate of commendation for excellence from the Louisiana Board of Regents was awarded in 1980. In 2008, the AVMA Council on Education revised the status

to limited accreditation pending the expansion of equine disease isolation facilities and the development of additional objective criteria to document the excellence of graduates of the school

## DEGREES

The School of Veterinary Medicine offers the professional Doctor of Veterinary Medicine (DVM) degree. Advanced degrees—the Master of Science and Doctor of Philosophy—in veterinary medical sciences are offered through the Graduate School.

## DEPARTMENTS

### Comparative Biomedical Sciences

The Department of Comparative Biomedical Sciences is comprised of Veterinary Anatomy and Cell Biology and Veterinary Physiology, Pharmacology, and Toxicology, formerly two distinct departments. The department is responsible for instruction in a major portion of the professional curriculum in Year I: namely, anatomy (cell/molecular, developmental, microscopic, and gross) and physiology. Gross anatomy and histology each have laboratory sessions that correlate with lecture presentations. Other first year courses include biochemistry and neuroscience. Pharmacology and toxicology are presented as separate courses in Years II and III.

Opportunities also exist for students in the professional curriculum to conduct research in the laboratories of various faculty under the auspices of an NIH T32 training grant, Merck-Merial or individual research grants of the faculty.

The department is actively engaged in biomedical research with an underlying theme of molecular medicine. Numerous extramurally funded faculty participate in an active graduate training program. Advanced study leads to the MS or PhD degree in veterinary medical sciences. Central research facilities include a microscopy center, analytical chemistry laboratory with proteomics capabilities, and an inhalation research facility.

Research is ultimately oriented toward improving animal and human health and in expanding basic biomedical knowledge.

### **Pathobiological Sciences**

The Department of Pathobiological Sciences provides teaching and training in the emphasis areas of bacteriology, epidemiology, immunology, parasitology, pathology, and virology. Departmental faculty are involved in all levels of the professional curriculum, providing lecture and laboratory experiences in bacteriology, mycology, immunology, epidemiology, pathology, parasitology, community health, and virology, as well as instruction in the practical application of necropsy techniques, all using cases received from the Veterinary Teaching Hospital & Clinics and the Louisiana Animal Disease Diagnostic Laboratory.

Advanced studies in the department lead to the MS and PhD degrees in veterinary medical sciences for both DVM and non-DVM graduate students. Graduate courses are offered in all disciplines associated with the department. Basic and applied research is conducted in the areas of molecular pathogenesis, animal disease processes, infectious and parasitic diseases, and host response to disease.

The departmental faculty provides a variety of services in support of the clinical and instructional programs of the school, including clinical pathology, cytology, postmortem examination, diagnostic parasitology, and aquatic animal disease diagnosis. Central research services include a molecular biology center, Gene Lab, a flow cytometry lab, histology lab, and a cell and organ culture center.

### **Veterinary Clinical Sciences**

The Department of Veterinary Clinical Sciences has responsibility for the instructional program in the diagnosis, treatment, and control of animal diseases. Departmental faculty contributes a major share of the instruction in Years II, III, and IV and participates in problem-based learning in Years I, II, and III. Classroom lectures and discussions of the diagnosis and medical or surgical treatment of diseases are augmented by laboratory training in diagnostic and therapeutic techniques. Those members of the faculty with concurrent appointments to the Veterinary Teaching Hospital & Clinics provide in-depth clinical training to students

registered in Phase II courses.

The modern veterinary teaching hospital, complete with sophisticated diagnostic equipment, accepts animal patients from Louisiana and surrounding states for diagnosis and treatment. This facility enables the faculty to offer advanced training to interns and residents and continuing education to veterinary professionals.

Advanced studies in the department lead to the MS and PhD degrees in veterinary medical sciences. Research is conducted by departmental faculty on projects related to the clinical sciences in collaboration with other departments of the school and University.

## **SCHOOL OF VETERINARY MEDICINE LIBRARY**

The LSU School of Veterinary Medicine Library is the major health science library in the greater Baton Rouge area. The library is a member of the Louisiana Library Network and the South Central Region of the National Network of Libraries of Medicine. The Library is a significant partner in the educational and research programs of the School of Veterinary Medicine. Centrally located on the first floor of the School of Veterinary Medicine, the Library offers both print and electronic resources dealing with all aspects of veterinary medicine. Patrons have access to not only those resources unique to the SVM Library, but also the resources provided by the main campus libraries.

The Library's collection includes topics of human medicine, comparative medicine, public health, the animal sciences, and other related areas. Provided each fall is an orientation to incoming students. This orientation is available to anyone upon request throughout the year. Reference and interlibrary loan services are also available. The library is consistently moving forward in its partnership with the veterinary medicine community and looks forward to working with you.

## **VETERINARY TEACHING HOSPITAL & CLINICS**

The school provides veterinary care to animal patients through its Veterinary Teaching Hospital & Clinics. A robust primary, secondary, and tertiary care caseload provides the case material for the instruction of professional students and post-DVM

interns and residents. The Small and Large Animal Clinics are subdivided into services that equate with Phase II courses. The Large Animal Clinic includes equine medicine and surgery service, ophthalmology service, farm animal medicine and surgery service, field service (rural practice), equine ambulatory service, and theriogenology service (reproductive health and disease). The Small Animal Clinic includes companion animal medicine service, companion animal surgery service, anesthesia service, cardiology service, ophthalmology service, dermatology service, oncology and radiation therapy service, exotic animal medicine and surgery service, and physical therapy and rehabilitation service.

These services are supported by radiology and diagnostic imaging, cat scan (and scan MRI), clinical pathology, pharmacy, nuclear medicine, companion animal intensive care unit, large animal intensive care unit, and clinical diagnostic services, including the various diagnostic support laboratories of the school.

The Veterinary Teaching Hospital & Clinics operate as a fee-for-service enterprise of the school. The fees generated provide most of its operating budget. Many of the patients are referred to the hospital from private practitioners from Louisiana and the surrounding states, but referrals are not required.

## STUDENT AND FACULTY CODE OF ETHICS

### I. Preamble

The students and faculty of the LSU School of Veterinary Medicine consider the cultivation of ethical standards by its members to be of primary importance in upholding the honor and integrity of the veterinary profession. The school expects its members to maintain standards of personal discipline that are in harmony with its educational goals; to observe national, state, and local laws as well as school and University regulations; and to respect the rights, privileges, and property of others. An atmosphere more conducive to education will be promoted by a mutual respect and trust among the members of the community of students and faculty. The status of such a relationship between students and faculty will depend on the behavior of these individuals, and the respon-

sibility of defining acceptable behavior will fall upon the student/faculty community as a whole.

### II. Articles

The members of the community of students and faculty endorse the following guidelines for their mutual interactions. It must be emphasized that these guidelines are of a general nature, provided as a basis for the intended mood of the document, and are not to be interpreted as a tool for airing petty grievances.

- A. The members are expected not to engage in any conduct that tends to provide unfair advantage for students in any academic matter. Examples of this provision include giving or receiving unauthorized aid during an examination and harboring study materials needed by an individual, class, or the student body as a whole.
- B. The members are expected not to extend to individual students privileged information concerning examinations that gives unfair advantages to those students.
- C. The members are expected not to seek privileged information concerning examinations in addition to that information that is disseminated to the entire class.
- D. The members are expected not to participate in any conduct that intentionally obstructs or disrupts a member's education, teaching, or research, and they are expected not to cause intentional destruction or deprivation of the property of a member or the school.
- E. The members are expected not to slander or anonymously accuse each other.
- F. The members are expected not to accuse, publicly or privately, any member through any channel other than one in which such person may have the opportunity to defend himself or herself.

### III. Responsibility

The establishment of a relationship based on trust is the responsibility of every member of the community. The members should, therefore, take positive steps to maintain this atmosphere and to correct any situation that might damage it.

### IV. Institution and Amendment

This document will become an official statement

of the community of students and faculty upon vote of approval by two thirds of the members of the student body and by approval of the faculty body. This document, or any part thereof, may be repealed or amended at any time, providing the proposal is presented orally to the members of the community and is posted for one month prior to vote. A vote of approval by two thirds of the student body and approval by the faculty body is necessary for these changes.

### V. Promulgation

The Executive Board of the Student Chapter, American Veterinary Medical Association, will provide all new members of the community with a copy of this document. In addition, the same board shall explain the provisions of this document each school year during the orientation of the incoming freshman class.

### VI. Addendum

Within the School of Veterinary Medicine, the

pursuit of allegations through the following outlined channels is strictly voluntary. The proper channels, open to any member of the community who is aware of activity that might damage this trust, are the following:

1. privately consult the individual in question;
2. consult the mentor of the class, if this be appropriate; and/or
3. consult the respective year coordinator, who may bring the matter to the faculty standing committee.

As a point of information to all members of the community, the above procedural channels are summarized from the current editions of the following documents, as they apply to the School of Veterinary Medicine: Faculty Handbook; Administrative Organization and Faculty Committees, School of Veterinary Medicine; Code of Student Conduct; and Bill of Student Rights.

(Approved by the student body and faculty, April 1976.)



# THE PROFESSIONAL PROGRAM

## ADMISSION REQUIREMENTS

If you are contemplating a career in veterinary medicine, you should acquire a sound foundation in the biological and physical sciences and a general knowledge of the arts and humanities in both high school and college. In addition, you should be motivated by a respect for animals, a sincere desire to serve the public, a propensity for the biological and medical sciences, and a deep interest in promotion of the health of animal and human populations. You must have a high aptitude for scientific study and must possess an excellent moral and ethical character.

Candidates for the DVM degree must complete a minimum of six years of college education. This includes two or more years of pre-veterinary education and four years of professional education. The pre-veterinary requirements may be completed at LSU or at any other accredited college or university offering courses of the quality and content of those prescribed in the LSU General Catalog.

The minimum requirement of 66 semester hours, including 20 hours of elective courses, may be completed in two years. Successful completion of a pre-veterinary program does not ensure admission to the school for professional training. Typically, there are more qualified applicants each year than there are spaces available to the entering class. Instruction in the four-year program is available only through the School of Veterinary Medicine at LSU. Scholastic achievement is measured by performance in the prescribed pre-professional courses. A minimum grade-point average of 3.0 ("A" = 4.00) in these courses is required for consideration for admission. A grade of less than "C" in a required course is unacceptable. Physical education activity courses may not be used as electives for meeting pre-professional requirements. Requirements are not waived in lieu of work experience.

Credit earned through advanced standing is acceptable, but is not used in the computation of the grade-point average. Evaluation of the

applicant's record in the pre-professional program is made in accordance with LSU procedures. Credit is not granted for College Level Examination Program (CLEP) general examinations. Granting of credit for CLEP subject examinations may be considered in those subjects recommended by various departments of the University upon receipt of test scores indicating the student meets the minimum acceptable scores required by those departments.

## RESIDENCE CLASSIFICATION

The LSU School of Veterinary Medicine determines eligibility for classification as a Louisiana resident based on LSU System regulations and evidence provided on the application for admission and related documents. Regulations relate primarily to location of the home and place of employment. Louisiana applicants must meet all residence requirements, as stated in University regulations.

A resident student is defined as one who has abandoned all prior domiciles and lived in the state of Louisiana continuously for at least one full year (365 days) immediately preceding the first day of classes of the term for which classification as a resident is sought.

Individuals living within this state for one year must be able to prove there was intent to maintain a residence in Louisiana. Residing in Louisiana solely for educational purposes without evidence of the intent to remain in Louisiana will not be sufficient for classification as a resident, regardless of the length of time within the state.

Factors considered in establishing residency, although not necessarily conclusive, include:

- Financial independence from parents residing in another state or country;
- Reliance on Louisiana resources for financial support;
- Continuous presence in Louisiana during periods when not enrolled as a student;
- Commitments indicating the intent to stay in Louisiana permanently;

- Paying Louisiana income taxes as a resident during the past tax year; and
- The absence of these indicators in other states during any period for which domicile in Louisiana is asserted.

Special provisions have been made for adults moving to Louisiana for employment purposes, military personnel stationed in Louisiana, and international students with immigrant visas. An international student on a student visa is classified as a nonresident. Resident classification and all fees are audited and adjusted, if necessary, after each registration. Appropriate credits or charges are then made to the student's account. For additional information concerning the establishment of residency, contact the Office of Undergraduate Admissions.

Applicants from Arkansas must be certified as having residence or citizenship established as required by the contract state. Inquiries should be addressed to: Arkansas Department of Higher Education, 114 E. Capitol Avenue, Little Rock, AR 72201-3818; phone number - (501)371-2000. Residents of Arkansas should also contact their program coordinator as early as possible for information concerning admission requirements, applications, and residence.

Applicants who do not meet either of the two residency classifications above are considered out-of-state residents. If accepted as an out-of-state resident, an applicant cannot change this status and will be considered an out-of-state resident for the entire four-year program.

## MINIMUM PREREQUISITES FOR ADMISSION

As a pre-veterinary student, you are encouraged to familiarize yourself with admission requirements for the professional program at the LSU School of Veterinary Medicine. You should seek knowledgeable pre-veterinary counselors and/or advice when enrolled in pre-professional programs other than at LSU.

A minimum of 66 total semester hours is required for consideration for admission into the professional DVM program. This must include the 46 semester credit hours of the courses listed below. More specific details regarding course descriptions can be found at the School of Vet-

erinary Medicine Admissions web site at [www.vetmed.lsu.edu/admissions](http://www.vetmed.lsu.edu/admissions). If there are any questions regarding equivalency of courses, please contact the School of Veterinary Medicine Student Affairs Office (e-mail: [admissions@vetmed.lsu.edu](mailto:admissions@vetmed.lsu.edu); Phone: 225-578-9538; Fax: 225-578-9546).

- Biological Science, 12 sem. hrs. - Must include at least 8 sem. hrs. (Two-semester course sequence with laboratory) in general biology or introductory zoology at a level appropriate for premedical students. Must also include at least 4 sem. hrs. (One-semester course with laboratory) in microbiology. LSU courses - Biology 1201, 1202, 1208, 1209, and 2051.
- General Chemistry, 8 sem. hrs. - Must include laboratory and must be at a level for science or engineering majors. LSU courses - Chemistry 1201, 1202, 1212.
- Organic Chemistry, 3 sem. hrs. - Must cover aliphatic and aromatic compounds, with emphasis on the biological aspects of organic chemistry. LSU course - Chemistry 2060.
- Biochemistry, 3 sem. hrs. - Must include 3 sem. hrs. of basic concepts and an introduction to the nature and physiological uses of natural substances. LSU course - Biochemistry 2083.
- Mathematics, 6 sem. hrs. - Must be at the college algebra/trigonometry level or higher. LSU courses - Mathematics 1021, 1022. If you qualify for more advanced mathematics courses, you may substitute Mathematics 1023 (5 sem. hrs.) for 1021 and 1022.
- Physics, 6 sem. hrs. - Must be at a level for science majors and must include mechanics, heat, sound, light, electricity, magnetism, and topics in modern physics. LSU courses - Physics 2001, 2002.
- Communication Skills, 9 sem. hrs. - Must include 6 sem. hrs. of English composition and 3 sem. hrs. of public speaking or interpersonal communication course. LSU courses - English 1000/1001, 1002 and Communication Studies 2010 or 2060.

Elective Courses, min. 20 sem. hrs. - In selecting the remaining required courses for admission to the professional program, you should consider the following:

- The objective of the DVM program is to offer a well-rounded curriculum in veterinary medical

education enabling the graduate to select from a wide range of professional opportunities. The selection of elective courses in the pre-professional curriculum should reflect the interests and the objectives of the candidate. Potential applicants should plan their programs with the recognition that these elective courses provide the only formal opportunity in the applicant's college years to obtain a broad general education.

- If you have completed advanced preparatory courses in high school you are, in all probability, qualified to complete the prerequisites within four semesters. These students are encouraged to take higher level university courses when so permitted. Applicants who are inadequately prepared may find it advantageous to complete the pre-veterinary requirements over a longer period.
- Although the primary objective of the applicant may be to complete the pre-veterinary requirements, those who have not previously obtained a baccalaureate degree are encouraged to plan for alternative career possibilities through registration in a degree-granting program which has similar course requirements. Several LSU curricula include all of the minimum mandatory requirements. Many other curricula which do not specify all of the requirements allow them as electives.

Since not all applicants will gain admission to the School of Veterinary Medicine on their first attempt, they should continue in degree programs while making themselves more competitive in subsequent years. Some students may elect to complete a baccalaureate degree in order to pursue graduate training during the first and second summers of the professional program.

LSU undergraduate students may want to contact the College of Agriculture to inquire about the 3+1 program. Through this program, students who earn a seat in the School of Veterinary Medicine following completion of the first three years of the Animal Science curriculum (102 hrs) may receive the B.S. degree following the first year of the professional DVM curriculum. Contact the LSU Department of Animal Sciences for more information.

## IMPORTANT INFORMATION REGARDING COURSEWORK

- All 46 credit hours listed above must be completed by the end of the spring semester prior to desired matriculation. (i.e. - If applying for matriculation into the fall '09 semester, all pre-requisites must be successfully completed by the end of the spring '09 semester.)
- New knowledge, especially in the sciences, is accruing at a rapid rate and records of students who have completed their pre-professional requirements several years prior to application will be carefully scrutinized.
- Students who are enrolled at accredited institutions other than LSU must determine that courses taken conform in content and quality to descriptions contained in the latest issue of the LSU General Catalog, which can be accessed online or obtained for \$3 per copy upon request from the LSU Office of Student Records & Registration, 112 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803. If there is a question as to the course equivalence of a course taken, please email [admissions@vetmed.lsu.edu](mailto:admissions@vetmed.lsu.edu). Note that full transcript evaluations are only performed once the application cycle has begun.
- At least one course in organic chemistry, biology, and physics MUST be completed within the last six years, and it is strongly advised that ALL required science courses be completed within six calendar years immediately prior to application. (For possible fall '09 matriculation, all science courses should be completed no further back than the fall '02 semester.)
- Prerequisites taken longer than 10 years ago will typically not be accepted. Written appeals regarding this 10-year policy can be sent to the Director of Admissions at [admissions@vetmed.lsu.edu](mailto:admissions@vetmed.lsu.edu).
- Applicants may choose to re-take a course to better master the subject at any point. If a course that is more than six years old is retaken, the most recent grade will be used otherwise the two grades will be averaged together when computing grade point averages.
- Credit earned through advanced standing and advanced placement exams is acceptable, but

is not used in the computation of the grade-point average. Evaluation of the applicant's record in the pre-professional program is made in accordance with LSU procedures. Credit is not granted for College Level Examination Program (CLEP) general examinations. Granting of credit for CLEP subject examinations may be considered in those subjects recommended by various departments of the University upon receipt of test scores indicating the student meets the minimum acceptable scores required by those departments.

- A Bachelor's degree is not a requirement for acceptance into the DVM program, although applicants are strongly encouraged to follow an undergraduate degree path in the event that entrance into the DVM program is not granted.

## GRADUATE RECORD EXAMINATION (GRE)

Applicants must take the General Graduate Record Examination (GRE) in the fall preceding application or earlier (i.e. - if applying for matriculation into the fall '09 then the GRE must be received no later than Nov. 15, 2008.) Those students following a four-semester program must complete this test soon after beginning the sophomore year. Appropriate preparation and selection of a curriculum that contributes to an acceptable score are strongly suggested. Applicants who do not have GRE scores submitted by November 15 will not be considered for admission into the program.

The School of Veterinary Medicine requires all applicants to take the General Graduate Record Exam (subject-specific exams are not accepted). Both the raw scores and the percentile scores are used in evaluating applicants, with only the highest individual score is used. GRE scores must be received by the School of Veterinary Medicine Admissions Office no later than November 15, 2008. Scores received after November 15 will not be accepted. Scores are only accepted via electronic transfer directly from ETS and applicants must have their scores resent for every application cycle. The School of Veterinary Medicine has its own school code for the submissions of GRE scores. All GRE scores must be sent to the following codes when submitting your GRE

scores: School Code - 6381; Department Code - 0617. For information about registering for the GRE, contact the Educational Testing Service at 1-800-GRE-CALL or visit their web site at [www.gre.org](http://www.gre.org).

## ADMISSION PROCEDURES

Admission to the School of Veterinary Medicine is granted only for the fall semester of each school year and only on a full-time basis. A prescribed number of student spaces is planned for each class, and the formal application material with all supporting credentials is required of each applicant. Students admitted and enrolled in the school must be capable of satisfactorily meeting all requirements of the curriculum in veterinary medicine. Eligible candidates are chosen to be interviewed by members of the Faculty Committee on Admissions and Scholastic Standing and are carefully selected to ensure that they are properly motivated, competent to undertake the rigorous courses of professional study, and capable of meeting the demands of a professional career.

The Faculty Committee on Admissions and Scholastic Standing is responsible for determining the application procedure and for selecting the entering class in the professional curriculum. All pre-professional requirements must be completed by the end of the spring semester before fall matriculation in the LSU School of Veterinary Medicine. Formal applications must be submitted no later than October 2008, at noon (EDT). Applications must be submitted through the Veterinary Medical Colleges Application Service (VMCAS). Along with the VMCAS application materials, a supplemental application must be completed and submitted directly to the School of Veterinary Medicine Admissions Office as well as all official undergraduate/graduate transcripts, GRE scores and letters of recommendation. Please visit the Admissions Office's web site at [www.vetmed.lsu.edu/admissions](http://www.vetmed.lsu.edu/admissions) for more details on the application process. Students reapplying must submit a completely new application for each application period.

Academic and non-academic qualifications are considered in the selection process. Selection for admission is based on the sum of the objective and subjective scores. The exact combination

of each component to the total score may vary slightly from year to year and is determined by the admissions committee and the Dean.

- An objective score that comprises approximately 65 percent of the final calculation is determined by the GPA in all required courses (approximately 29 percent), the GPA in the last 45-60 hours (approximately 18 percent), and the score on the GRE (approximately 18 percent).
- A subjective score comprises approximately 35 percent of the final calculation and is determined by a review of the applicant's folder (approximately 15 percent), an interview (for Louisiana and Arkansas residents only—approximately 10 percent), and a holistic assessment by the admissions committee.

The objective evaluation is based on scholastic achievement and standardized test scores. Official transcripts of college course grades are examined to determine scholastic achievement. The total objective score is derived from the grade-point average on required courses, the grade-point average on the most recent 45-60 semester hours of course work, and the results of the GRE. New knowledge, especially in the sciences, is accruing at a rapid rate, so if you have completed your pre-professional requirements several years prior to application, your records will be carefully scrutinized. It is advised that all required science courses should be completed within six calendar years immediately prior to application. At least one course in organic chemistry, biology, and physics must be completed within the last six years.

Only Animal Science, Physical Science and Biological Science courses are included in the Required Course GPA. Social science, humanities, business, kinesiology, and any general education courses are NOT calculated into the Required Course GPA, but are still calculated into the Last 45 Credit Hour GPA - except for kinesiology courses.

The subjective evaluation of applicants is based on non-academic qualifications considered relevant to the determination of the applicant's prospective performance in the veterinary medical curriculum and in the practice of veterinary medicine. Motivation, maturity, attitude, interest, and other characteristics will be evaluated for all qualified candidates, along with work experience,

familiarity with animals, and reference information submitted in support of the application. These qualities are evaluated by two separate committees. The first committee reviews the supporting documents (autobiography, letters of recommendation, transcripts, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. These appraisals result in an average subjective score which is added to the objective score to produce the total numerical evaluation of the candidate. Through this process, the professional judgment of several faculty members is included in arriving at a final decision of recommended students for the new class. Interviews are not granted to every Louisiana and Arkansas applicant, and only select out of state applicants will be invited to interview.

The final decision rests with the Dean of the LSU School of Veterinary Medicine. The Faculty Committee on Admissions and Scholastic Standing makes their recommendations to the Dean, who then finalizes the offers of admission.

Under exceptional circumstances, a limited number of applicants not selected under the above criteria may be admitted. Factors to be considered by the Faculty Committee on Admissions and Scholastic Standing include undergraduate experience, GRE score, advanced academic work, work experience, or participation in special educational programs, as well as those special attributes possessed by the applicant that add to the cultural, educational, and/or geographical diversity of the entering class.

Please visit the School of Veterinary Medicine Admissions Office web site at [www.vetmed.lsu.edu/admissions](http://www.vetmed.lsu.edu/admissions) for more information on admission requirements, residency classifications, minimum prerequisites, admissions procedures, statistics, important dates and deadlines, and much more.

## SCHOLASTIC REGULATIONS

All students should be familiar with the following rules governing academic probation and dismissal:

1. You shall be placed on probation if your gpa in all required courses (i.e., those courses required of all veterinary medical students) taken during the last semester in which you

- were enrolled is below 2.00 ("C" average); if you receive any grade of "D" that has been remediated up from an "F" (Phase II courses only: see "Policy Concerning Failing Grades and Remediation in Phase II," below); if any required course is pending retesting; or if you receive any grade of "F" in an elective course (see "Policy Concerning Failure and Remediation of Elective Courses in Phase I of the VMED Curriculum," below).
2. You may not be allowed to progress to the next semester until you have received a passing grade for all required courses in the semester being completed.
  3. You shall not advance to the next year of the professional curriculum with a cumulative gpa below 2.00.
  4. You shall not advance to Phase II of the professional curriculum until you have received a passing grade for all required Phase I courses.
  5. You shall not graduate from the professional curriculum until you have received a passing grade for all required courses in Phase II.
  6. You may be dismissed from the school:
    - a. If you receive a grade of "F" in any required course in the curriculum;
    - b. If you fail to achieve a GPA of 2.00 in all required courses taken during each academic year, i.e., Year I (first and second semesters), Year II (third and fourth semesters), Year III (fifth semester and spring courses taken prior to entering Phase II), Year IV (Phase II);
    - c. If you receive a grade of "D" or below on greater than 6.5 credit hours in any semester;
    - d. If while on probation your gpa falls below 2.00 for any regular semester;
    - e. If you stay on probation for two consecutive regular semesters;
    - f. If you receive a grade of "D" or below on greater than 10 credit hours in the curriculum;
    - g. If, following due process in accordance with University Policy and Procedures, you are denied permission to proceed in the curriculum for any other reason.
  7. If you become subject to the provisions of any of the above scholastic regulations, you

shall be subject to such requirements as the Committee on Scholastic Standards and/ or the Admission Committee may determine appropriate.

8. If you voluntarily withdraw from the school or you are dropped from the school for cause, you forfeit your position and standing in the class. Readmission to the school may be granted only after approval of the Admissions Committee.
9. If you must withdraw from the school for any medical reason (including mental, physical, or chemical impairment) certified by a qualified physician, you shall be guaranteed one readmission, contingent upon your providing the appropriate professional certification of rehabilitation and/or recovery. All classes completed up to the time of withdrawal will be included in and count toward your record, gpa, and scholastic standards evaluation.
10. You are reminded of the University academic appeals procedure. The section "Student Academic Appeals" in the LSU General Catalog outlines the route by which you may appeal any decision or action that affects your academic life in the University.

### **Policy Concerning Failure and Remediation of Elective Courses in Phase I of the VMED Curriculum**

1. If you receive a grade of "F" in an elective course in Phase I, you will not receive credit for the course and will not have the option for remediation or retesting. The "F" grade will be reflected on your transcript, and the grade will count toward the overall GPA and the accumulation of "D" or below credits used in scholastic standards evaluation. You will be placed on probation for the upcoming semester and may have the option to retake the course later in the curriculum, subject to the feasibility of scheduling.
2. An "F" grade in an elective course will not in and of itself subject you to dismissal from the curriculum, but will contribute to a decision subjecting you to dismissal when that "F" grade is included in your GPA and/or in the total accumulated credits of "D" or below achieved.

## Policy Concerning Failure and Retesting of Phase I

1. In the event that you receive a grade of "F" in any Phase I required course having only one examination, you may participate in a retesting process such that you display mastery at a level equivalent to the standards originally set for the course. The details regarding the retesting procedure will be left to the discretion of the coordinator of the course. This process must be successfully completed prior to the start of the next semester for you to proceed in the curriculum.
2. This policy cannot be used to adjust a grade to any grade higher than a "D." Failure to successfully complete the retesting process will result in a grade of "F" being assigned and your dismissal from the school.
3. You will not be allowed to utilize the retesting process more than once in the curriculum. If you receive a grade of "F" in a required course that you have previously had any grade adjusted to a "D" by using the above-mentioned policy, you will automatically be assigned an "F" grade and you will be dismissed from the school.

## Policy Concerning Failing Grades and Remediation in Phase II

If you receive a failing grade for any Phase II block or half block rotation, the course coordinator shall call a meeting of the course committee. The course committee has two options:

- let the failing grade stand, in which case you will be dismissed from the school;
- offer remediation if, from consideration of your overall performance, it would appear possible for you to achieve an acceptable standard of performance.

For full details of this policy, refer to the Phase II Student Handbook.

## PRE-EXPOSURE RABIES VACCINATION

The safest and most effective method of preventing rabies in high risk groups is by pre-exposure vaccination. Because the risk of exposure is especially high for students of veterinary medicine, it is the policy of the School of Veterinary Medicine

that all students must receive pre-exposure rabies vaccine before or during the fall semester of their first year in the professional curriculum. The vaccine will be available through the LSU Student Health Center for enrolled veterinary medicine students.

## PROFESSIONALISM

Participation in the profession of veterinary medicine demands competence, initiative, and motivation. Veterinarians are expected to maintain a high degree of professional pride, personal dignity, and integrity. They accept and abide by an ethical code and recognize that the public image of a profession is a reflection of the general demeanor and collective attitude of its members. Your admission to membership in the veterinary medical discipline is a privilege extended by the profession rather than an obligation to you following completion of a prescribed curriculum. Membership carries with it privileges and responsibilities to the profession and to the various publics that it serves.

Veterinarians serve the needs of society and contribute to the health and welfare of people through participation in the clinical practice of companion animal medicine, herd health and production management, public and environmental health, basic and applied research, nuclear and space sciences, aquatic and marine biology, teaching and research, and clinical biomedical sciences. The profession will continue to make rapid progress, rising in prestige and stature, only through constant dedication to high ideals and through the individual achievement of its members. Each veterinary graduate and each veterinary student should constantly be aware of the moral, social, civic, and professional responsibilities of the veterinary medical profession and should strive continuously to develop and strengthen the principles upon which it is built.

## ACADEMIC DISHONESTY

Integrity and honesty are fundamental qualities of the learned profession of veterinary medicine. As a student member of the profession, you must be the embodiment of these qualities, and your conduct must be above reproach. Academic dishonesty undermines the profession and the entire

academic enterprise. As a result, it cannot and will not be tolerated. If you are found guilty of academic dishonesty under the LSU Code of Student Conduct, the following provisions will apply:

- If you have been given disciplinary sanctions as a result of academic dishonesty, you will forfeit the right to re-enroll in the School of Veterinary Medicine during the next three regular semesters, excluding the summer term. After the stipulated forfeiture, you have the right to apply for readmission, which must be approved by the dean of the School of Veterinary Medicine. Readmission is not guaranteed.
- If you have been suspended from the University as a result of academic dishonesty, you will forfeit, for an indefinite period of time, the right to be enrolled in the School of Veterinary Medicine. After five consecutive regular semesters

(excluding summer terms), you have the right to apply for readmission, which must be approved by the dean of the School of Veterinary Medicine. Readmission is not guaranteed.

## LICENSURE REQUIREMENTS

In order to practice veterinary medicine in the state of Louisiana, graduate veterinarians must submit a passing score on the North American Veterinary Licensing Examination to the Louisiana Veterinary Medical Board. You should inquire into the policies of other states in which you may intend to practice. The time, place, and application procedures for this examination are announced each year. Only after graduate veterinarians have successfully completed this examination do they receive their licenses to practice.



## PROFESSIONAL CURRICULUM

Phase I • Year 1 • Fall		Hours:	Contact	Sem.
5100	Introduction to Veterinary Medicine I		11	0.5
5103	Principles of Problem Solving		25	1
5104	Principles of Diagnostic Imaging I		20	1
5110	Biochemistry and Membrane/Muscle Physiology		53	3
5111	Veterinary Physiology I		50	3
5123	Basic and Applied Anatomy I		77	3.5
5124	Basic and Applied Anatomy II		78	3
5126	Cell Biology and Histology		58	3
5127	Histology and Developmental Anatomy		74	4
<b>Total</b>			<b>446</b>	<b>22</b>

Phase I • Year II • Fall		Hours:	Contact	Sem.
5002	Problem-based Learning II		80	2
5202	Animals in Society I		11	0.5
5223	Veterinary Pharmacology		70	4.5
5235	Veterinary Parasitology		80	4
5236	Veterinary Virology		32	2
5241	Systemic Pathology I		100	4.5
5270	Clinical Pathology & Diseases of the Hemolymphatic System		80	4
5273	Endocrine and Metabolic Diseases		44	2.5
<b>Total</b>			<b>497</b>	<b>24</b>

Phase I • Year III • Fall		Hours:	Contact	Sem.
5003	Problem-Based Learning III		80	2
5011	Advanced Veterinary Anesthesiology and Surgery		31	1.5
5264	Diseases of Dogs and Cats		58	3.5
5320	Large Animal Clinical Nutrition or		20	1
5325	Small Animal Clinical Nutrition		20	1
5361	Theriogenology		96	5
5362	Diseases of Horses		76	4
5363	Critical Care		20	1
5364	Neurology and Ophthalmology		50	3
5366	Population Medicine		41	2.5
5371	Practice Management		20	1
<b>Total</b>			<b>492</b>	<b>24.5</b>

1 - Participation in all laboratory sessions is mandatory. Some laboratory sessions include procedures on living animals.

2 - Phase II students must take 20 semester hours of required course work and must register for at least 32 sem. hrs. of elective course work to meet the 52 sem. hrs. required for graduation. A maximum of 60 sem. hrs. may be earned in Phase II.

3 - These courses are required of all Phase II students for graduation.

4 - These courses are required of all Phase II students in clinical practice concentrations.

5 - A list of possible topics that may be offered as VMED 5010 is included at the end of the course listings.

Phase I • Year I • Spring		Hours:	Contact	Sem.
5001	Problem-based Learning I		80	2
5010	Special Topics in Veterinary Medicine <sup>5</sup>		20	2
5102	Introduction to Veterinary Medicine II		11	0.5
5105	Principles of Diagnostic Imaging II		8	0.5
5112	Veterinary Physiology II		50	2.5
5125	Basic & Applied Anatomy III		108	4
5130	Veterinary Bacteriology & Mycology		75	4
5171	Neuroscience		54	3
5172	Veterinary Immunology		30	1.5
5173	Veterinary Pathology		50	3
<b>Total</b>			<b>486</b>	<b>23</b>

Phase I • Year II • Spring		Hours:	Contact	Sem.
5010	Special Topics in Veterinary Medicine <sup>5</sup>		10	1
5203	Animals in Society II		11	0.5
5242	Systemic Pathology II		30	1.5
5253	Epidemiology and Public Health		45	3
5260	Principles of Veterinary Surgery		25	1.5
5262	Small Animal Orthopedics		25	1.5
5261	Diseases of the Cardiovascular System		33	2
5263	Urinary System Diseases		30	2
5265	Avian, Zoo, & Exotic Animal Diseases		50	3
5266	Diseases of Farm Animals		70	4
5267	Veterinary Anesthesia		26	1.5
5272	Clinical Veterinary Oncology		30	2
5365	Integumentary System		40	2.5
<b>Total</b>			<b>425</b>	<b>26</b>

Phase I • Year III • Spring		Hours:	Contact	Sem.
5370	Ethics and Jurisprudence		13	1
5372	Clinical Immunology and Infectious Diseases		40	2.5
5373	Toxicology		40	2.5
<b>Total</b>			<b>93</b>	<b>6</b>

Phase II <sup>6</sup>		Hours:	Contact	Sem.
5010	Special Topics in Veterinary Medicine <sup>5</sup>		20	2
5441	Diagnostic Microbiology <sup>4</sup>		40	1
5442	Diagnostic Parasitology <sup>4</sup>		40	1
5443	Anesthesiology <sup>4</sup>		80	2
5452	Diagnostic Pathology <sup>5</sup>		160	4
5454	Radiology and Diagnostic Imaging <sup>4</sup>		160	4
5455	Avian, Zoo, Exotic, and Marine Animal Medicine	40-160	1-4	
5456	Canine and Feline Medicine and Preventive Health <sup>3</sup>	160	4	
5457	Companion Animal Surgery <sup>3</sup>	160	4	
5458	Equine Medicine and Surgery <sup>3</sup>	160	4	
5460	Applied Veterinary Dermatology	80	2	
5462	Preceptorship	80-200	2-5	
5463	Special Training	40-160	1-4	
	Clinical Pathology, Fish Medicine, Laboratory Animal Medicine, Poultry Medicine, Ultrasonography, Practice Management, Production Medicine, Cardiology, Oncology			
5465	Theriogenology	40-160	1-4	
5467	Applied Veterinary Ophthalmology	40-160	1-4	
5468	Farm Animal Health Management <sup>3</sup>	160	4	
<b>Total</b>		<b>2080-2400</b>	<b>52-60</b>	

# THE ADVANCED STUDIES PROGRAM

The School of Veterinary Medicine offers advanced studies in a variety of contemporary biomedical sciences leading to an MS or PhD degree (Graduate Academic Programs) and specialized advanced professional training in one or more clinical specialties of veterinary medicine (Graduate Professional Programs). Specific research training opportunities vary in each of the three departments and are summarized below by department. All aspects of the Graduate Academic Program are in compliance with current regulations and requirements of the LSU Graduate School. The school's three departments have some additional distinct requirements. Graduate Professional Programs in some clinical sciences, pathology, and laboratory animal medicine may also require completion of a graduate degree.

## GRADUATE ACADEMIC PROGRAMS

The graduate academic program in Veterinary medical sciences offers both the MS and PhD degrees specializing in a variety of research areas, all requiring a thesis or dissertation.

All aspects of the graduate program in veterinary medical sciences (e.g., hours required, composition of Graduate Advisory Committees, general and comprehensive final examinations, etc.) are in compliance with the current "General Graduate School Regulations" and "Requirements for Advanced Degrees."

## AREAS OF SPECIALIZATION

Graduate degrees (as indicated in parentheses) are offered by the School of Veterinary Medicine in its three departments. These include: the Department of Comparative Biomedical Sciences (MS, PhD), the Department of Pathobiological Sciences (MS, PhD), and the Department of Veterinary Clinical Sciences (MS, PhD).

### Department of Comparative Biomedical Sciences (MS, PhD)

Graduate training in this department offers graduate students the opportunity to specialize in Biomedical research in one or more of the various disciplines in the department. Broadly, these disciplines are grouped into three areas: 1) Cell and molecular biology of cancer — e.g., metastasis, DNA repair mechanisms, and gene therapy; 2) Cell and molecular biology in development and physiology — e.g., initiation of tooth eruption, role of cytokines in primary heart failure, diagnostic neurophysiology, ion channels in insulin release, and signal transduction; and 3) Environmental health science — e.g., inhalation toxicology, aquatic species pharmacology and toxicology, and analytical pharmacology and toxicology. Other areas of expertise in the department include cetacean morphology, cellular ultrastructure, and neurochemistry.

A core course in Biomedical Cell and Molecular Biology (CBS 7104) introduces graduate students to the role of cell and molecular biology in diagnosis and treatment of diseases.

### Department of Pathobiological Sciences (MS, PhD)

This graduate education program attracts candidates with DVM or equivalent degrees and students with bachelor's or master's degrees in microbiological, immunological, zoological, and biomolecular sciences.

The emphasis is on developing intellectual abilities and research skills through investigations of infectious diseases of food-producing, companion, and aquatic animals, as well as animal models for human disease. The interdisciplinary faculty—with expertise in molecular biology of infectious diseases, parasitology, and immunology—as well as well-equipped laboratories, provide a stimulating environment for graduate training. Depending on individual interest, graduate students may choose courses with an emphasis in immunology and molecular virology, bacterial or viral pathogen-

esis, or parasitology and parasite-induced diseases. Communication skills are fostered through active research discussion groups, interdisciplinary seminars, oral examinations, presentation of papers at scientific meetings, and publication of research findings.

This academic and scientific program develops uniquely trained scientists who are able to contribute to the improved health of food-producing, companion, and aquatic animals through vaccine development and modulation of the immune response. Graduates possess the ability to investigate the pathogenesis and disease mechanisms of existing and newly emerging animal and human pathogens to advance animal and human health through research. Graduates may qualify for examination by the American College of Veterinary Microbiologists and for assuming responsibilities of academic, industrial, and governmental positions.

The graduate professional programs in the department emphasize post-DVM education that leads to the PhD degree. An MS degree is also available. The program offers an in-depth educational experience in classical morphological, clinical pathology, or laboratory animal medicine. Completion of the residency program partially satisfies the requirements of eligibility for the board examination of the American College of Veterinary Pathologists (ACVP) or the American College of Laboratory Animal Medicine (ACLAM). Research opportunities encompass the research programs of the entire School of Veterinary Medicine.

### **Department of Veterinary Clinical Sciences (MS, PhD)**

This department offers veterinarians with a fundamental background in clinical sciences the opportunity to study disease problems in small, large, and exotic animals. All applicants must have a DVM degree or equivalent. Most faculty of the department hold concurrent appointments in the Veterinary Teaching Hospital & Clinics where they provide in-depth clinical training to professional students while serving the animal health needs of the hospital's clientele. The hospital program is supported by a large and diverse staff that includes veterinary interns and residents, medical technologists, radiologic technologists, and pharmacists.

Advanced training in clinical sciences prepares

veterinarians for careers in clinical research and teaching and administration of clinical trials in the private and governmental sectors. Faculty research interests and areas of expertise range from basic research in immunogenetics to applied studies of surgical and medical problems. Collaborative research with other departments in the School of Veterinary Medicine, the University, and extramural agencies is encouraged and fostered. Opportunities are available in a variety of disciplines for graduate students to acquire teaching experience.

### **ADMISSION**

If you wish to apply for admission to the graduate program, you should submit a completed "Application for Graduate Admission" to the Graduate School. You must be a veterinarian or have a baccalaureate or MS degree from an accredited institution. Further, you must meet standards for admission established by the Graduate School, including grade-point average and GRE scores. If you are an international student (except those from certain English-speaking countries), you must score at least 550 on the Test of English as a Foreign Language (TOEFL) examination.

If you are admitted on probation, you will remain in this status until the completion of nine hours of graduate-level, graded courses attaining a grade-point average of at least 3.00. If you are admitted on probation, you may not hold an assistantship or fellowship.

### **FINANCIAL ASSISTANCE**

Graduate fellowship stipends are based on funds available from the Office of the Dean, School of Veterinary Medicine; from the Graduate School; or from funds that may be available from extramural sources. If you are a non-DVM student and you receive a state-supported assistantship, you will not be approved for transfer into the professional program until the completion of your graduate studies program.

### **GRADUATE PROFESSIONAL STUDIES**

The Department of Veterinary Clinical Sciences provides graduate professional training to interns

and residents through the Veterinary Teaching Hospital & Clinics. Recruitment and selection for this program are through the Veterinary Intern and Resident Matching Program (MRMP). One-year rotating internships are available in companion animal medicine and surgery, zoological medicine, cardiology, anesthesiology, radiology, and large animal medicine and surgery (equine emphasis). Two- or three-year residency programs are available in companion animal medicine, companion animal surgery, dermatology, equine medicine, equine surgery, equine practice, zoological medicine, and theriogenology. Concurrent graduate

academic studies leading to the MS degree may be arranged in a variety of concentrations.

The Department of Pathobiological Sciences provides residency training in morphological and clinical pathology and also laboratory animal medicine through the Division of Laboratory Animal Medicine. Residency training programs are designed to prepare you to meet the requirements for certification in the corresponding veterinary specialty. Residents in this program generally complete an MS or PhD degree in veterinary medical sciences.



# FEES & FINANCIAL AID

Student expenses, other than those given in the following schedules, will vary with the individual.

For information about room rent, dining plans, refunds, and other special fees, see the "Undergraduate Fees and Expenses" section of the LSU General Catalog. Although fees and other costs are relatively stable, the University may change fees and costs for housing and dining plans at any time and without providing advance notice.

## APPLICATION FEE

Applications for graduate admission must be accompanied by a \$25 nonrefundable application fee (check or money order) made payable to LSU. If you are applying for professional admission, you should pay the appropriate fees as stated in the VMCAS application. A supplemental fee of \$50 must accompany the supplemental application. An additional nonrefundable late application fee of \$25 will be assessed for all graduate applications received by the Office of Graduate Admissions after the following deadlines: summer term, May 15; fall semester, May 15; spring semester, October 15. The late application fee also applies to applications for readmission submitted after the above dates.

## PROFESSIONAL FEES

A microscope fee of \$40 per semester is assessed each student during Years I and II of the professional curriculum. No fees are assessed regularly admitted students in the summer of Year IV, regardless of the elective blocks taken.

Regularly admitted, contract students are accepted only from contract states. These students pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract. The nonresident fee is applicable only to nonresident students from states other than contract states.

## GRADUATION FEES

If you are engaged in writing a thesis or a

dissertation, you are expected to register for research hours commensurate with the amount of University resources—faculty time, equipment, library facilities, and/or office space—to be used that semester. If you have completed all degree requirements, including final examinations, you must register for "degree only" and pay only the graduation fee if your thesis or dissertation is submitted to the Graduate School on or before the last day to add courses for credit. For full-time fee benefits and student-imposed allocations, see the "Required Fees" table.

## OTHER FEES

### Audit Fees

Fees for auditing courses are in accordance with the "Regular Semester" and "Summer Term" fees. Maximum fees are \$1,508 for the regular semester and \$1,216 for the summer term. If you enroll for combined credit and audit work, your fees are assessed in accordance with total hours scheduled.

### Graduation Fees

- Master's degree fee, \$35; processing fee, \$20
- Doctoral degree fee, \$55; processing fee, \$35

The processing fee includes microfilming one official copy of your dissertation or monograph by University Microfilms, Ann Arbor, Michigan, and the publication of an abstract in Dissertation Abstracts or Research Abstracts. A multivolume thesis or dissertation requires payment of more than one binding fee. One copy of the thesis or dissertation is retained in the Hill Memorial Library; the second copy is retained in Middleton Library for circulation.

Payment of the graduation fee entitles you to a diploma and a two-year subscription to LSU Magazine, the official publication of the LSU Alumni Association. If you apply for graduation and fail to receive the degree at the specified time, you must pay a \$20 duplicate diploma fee; the replacement diploma fee is \$30.

## FALL SEMESTER FEES · VETERINARY MEDICINE STUDENTS

Hours	Residents	SREB Contract Fee	Nonresidents
<b>Full-time (10 or more hours):</b>			
15 hours AND ABOVE	\$6,331.70	\$11,200.00	\$17,531.70
14 hours	\$6,318.10	\$11,200.00	\$17,518.10
13 hours	\$6,304.50	\$11,200.00	\$17,504.50
12 hours	\$6,290.90	\$11,200.00	\$17,490.90
11 hours	\$6,277.30	\$11,200.00	\$17,477.30
10 hours	\$6,263.70	\$11,200.00	\$17,463.70
<b>Part-Time:</b>			
No Part-Time Students	N/A	N/A	N/A

## PRELIMINARY SPRING SEMESTER FEES · VETERINARY MEDICINE STUDENTS

Hours	Residents	SREB Contract Fee	Nonresidents
<b>Full-time (10 or more hours):</b>			
15 hours AND ABOVE	\$6,337.70	\$11,200.00	\$17,537.70
14 hours	\$6,324.10	\$11,200.00	\$17,524.10
13 hours	\$6,310.50	\$11,200.00	\$17,510.50
12 hours	\$6,296.90	\$11,200.00	\$17,496.90
11 hours	\$6,283.30	\$11,200.00	\$17,483.30
10 hours	\$6,269.70	\$11,200.00	\$17,469.70
<b>Part-Time:</b>			
No Part-Time Students	N/A	N/A	N/A

All fees are estimates and the LSU Board of Supervisors may modify tuition and/or fees at any time without advance notice.



## FALL SEMESTER FEES • GRADUATE STUDENTS

Hours	Residents Tuition & Required Fees	Nonresidents Tuition & Required Fees	Nonresident Fee	Total
<b>Full-Time (9 or more hrs.)</b>				
15 hours AND ABOVE	\$2,547.70	\$2,547.70	\$4,357	\$6,904.70
14 hours	\$2,534.10	\$2,534.10	\$4,357	\$6,891.10
13 hours	\$2,520.50	\$2,520.50	\$4,357	\$6,877.50
12 hours	\$2,506.90	\$2,506.90	\$4,357	\$6,863.90
11 hours	\$2,483.30	\$2,483.30	\$4,357	\$6,840.30
10 hours	\$2,459.70	\$2,459.70	\$4,357	\$6,816.70
9 hours	\$2,436.10	\$2,266.45	\$4,357	\$6,793.10
<b>Part-time:</b>				
8 hours	\$1,662.80	\$1,662.80	\$2,665	\$4,317.80
7 hours	\$1,586.20	\$1,586.20	\$2,655	\$3,241.20
6 hours	\$1061.60	\$1061.60	\$1,849	\$2,410.60
5 hours	\$934.00	\$934.00	\$1,849	\$2,910.60
4 hours	\$911.40	\$911.40	\$1,849	\$2,833.00
3 hours	\$578.80	\$578.80	\$394	\$972.80
2 hours	\$501.20	\$501.20	\$394	\$895.20
1 hour	\$424.60	\$424.60	\$394	\$818.60

## PRELIMINARY SPRING SEMESTER FEES • GRADUATE STUDENTS

<b>Full-Time (9 or more hrs.)</b>				
15 hours AND ABOVE	\$2,547.70	\$2,547.70	\$4,357	\$6,904.70
14 hours	\$2,534.10	\$2,534.10	\$4,357	\$6,891.10
13 hours	\$2,520.50	\$2,520.50	\$4,357	\$6,877.50
12 hours	\$2,506.90	\$2,506.90	\$4,357	\$6,963.90
11 hours	\$2,483.30	\$2,483.30	\$4,357	\$6,840.30
10 hours	\$2,459.70	\$2,459.70	\$4,357	\$6,816.70
9 hours	\$2,436.10	\$2,436.10	\$4,357	\$6,793.10
<b>Part-time:</b>				
8 hours	\$1,673.80	\$1,673.80	\$2,655	\$4,046.00
7 hours	\$1,545.30	\$1,545.20	\$2,655	\$3,981.25
6 hours	\$1068.60	\$1068.60	\$1,849	\$2,721.50
5 hours	\$991.00	\$991.00	\$1,849	\$2,656.75
4 hours	\$916.40	\$916.40	\$1,849	\$2,596.00
3 hours	\$582.80	\$582.80	\$394	\$902.25
2 hours	\$503.20	\$503.20	\$394	\$836.50
1 hour	\$426.60	\$426.60	\$394	\$772.75

This information was obtained from the Office of Budget and Planning in July 2008. Tuition and fees may change without advanced notice. Refer to "LSU Fee Schedules" on the Office of Budget and Planning's Web site ([www.bgtplan.lsu.edu](http://www.bgtplan.lsu.edu)) for the most accurate information.

**REQUIRED FEES - FULL-TIME GRADUATE & VETERINARY MEDICAL STUDENTS**

Mass Transit System	\$4/credit hour	\$4/credit hour	\$4/credit hour
LSU Union	\$4/credit hour	\$4/credit hour	\$4/credit hour
LSU Union Renovation Fund	\$6/credit hour	\$6/credit hour	\$6/credit hour
Campus Life Support	\$1/credit hour	\$1/credit hour	\$1/credit hour
<b>Student Recommended Fees</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
Student Recreational Sports Complex	\$45.00	\$45.00	\$20.00
BR Crisis Intervention (The Phone)	2.00	2.00	1.00
KLSU Radio	5.00	5.00	3.00
Performing Arts - Music	2.00	2.00	—
LSU Union Maintenance Fund	24.00	24.00	—
Mass Transit System	35.00	35.00	22.00
Organization Relief Fund	—	6.00	—
LSU-TV	2.00	2.00	1.00
Women's Transit (\$1.00 Total)			
Distr. to Women's Transit Account	0.80	0.80	0.80
Distr. to SGA Account	0.20	0.20	0.20
Gumbo (Yearbook)	5.50	—	—
Legacy (Magazine)	1.50	—	—
The Reveille (Newspaper)	2.00	2.00	1.00
Student Government Newspaper Initiative	1.00	1.00	—
Student Government Programming, Support, & Initiatives (\$5.50 total)			
Spring Concert	3.00	3.00	—
Fall Concert	0.30	0.30	—
SG Concert Series	0.90	0.90	—
Recreational Sports Assistance	0.20	0.20	—
Organizational Initiatives & Conference Support	0.10	0.10	—
Late Night Programming	1.00	—	—
Veterinary School Graduate Student Travel Fund	6.00	6.00	—
<b>Subtotal</b>	<b>\$140.50</b>	<b>\$138.50</b>	<b>\$49.00</b>
Student Health Service Fee	\$120.00	\$120.00	\$72.00
<b>Other Allocated Fees</b>			
Mass Transit System	\$8.20	\$8.20	\$7.20
Student Government	2.00	2.00	0.75
Auxiliary Enterprise Maintenance Fund	3.75	3.75	1.85
Student Services Maintenance Fund	3.75	3.75	1.90
The Reveille (Newspaper)	2.00	2.00	0.75
Student Media	0.25	—	—
Gumbo (Yearbook)	—	2.50	—

*Other Allocated Fees continued*

Legacy (Magazine)	—	3.50	—
LSU Union			
Union Fee	13.50	13.50	5.25
Maintenance Fund	7.50	7.50	3.75
Renovation Fund	74.00	81.00	43.00
Campus Life Support	19.00	19.00	3.00
Golf	1.25	1.25	0.75
Organization Relief Fund	—	0.25	—
Student Government Initiatives	—	1.00	—
Organization Programming & Support	—	1.25	—
Facilities Access	—	3.50	—
<b>Subtotal</b>	<b>\$135.20</b>	<b>\$153.95</b>	<b>\$68.20</b>
<b>Total</b>	<b>\$395.70</b>	<b>\$412.45</b>	<b>\$189.20</b>
Registration Fee (Nonrefundable)	\$10.00	\$10.00	\$10.00
<b>Total Included In “Required Fees”</b>	<b>\$405.70</b>	<b>\$422.45</b>	<b>\$199.20</b>

*The LSU Board of Supervisors may modify tuition and/or fees at any time without advance notice.*



## Motor Vehicle Registration Fee

If you (as a full-time, part-time, night, or auditing student) operate or expect to operate a motor vehicle on campus regularly or occasionally, you are required to register with the Office of Parking, Traffic, & Transportation. A registration fee will be charged for each permit issued. The exact amount of this fee will be published each year in the Traffic & Parking Regulations issued by the Office of Parking, Traffic, & Transportation.

## Student Health Center Fee

If you are a full-time student, you are required to pay a \$90 Student Health Center fee each fall and spring registration and a \$54 fee for the summer term. This fee entitles you to use the Student Health Center. No charge is made to visit a primary care physician, but minimum charges are assessed for specialty clinics and treatments, pharmaceuticals, X-rays, and laboratory work. If you use the mental health services, you are allowed three free visits and, thereafter, you are charged according to a sliding fee scale.

If you are a part-time student who wants to use the center, you have the option of paying the \$90 fee, which entitles you to the same services as full-time students for the entire semester. Part-time students also have the option of paying a per-visit charge of \$25, which includes a follow-up visit for the same medical condition.

Nonstudent spouses have the option of paying the semester fee, which entitles them to the same services as full-time students for the entire semester. Ancillary service charges (lab, pharmacy, X-ray) will be assessed at student rates.

## PAYMENT OF FEES

Fee bills are available only online via your PAWS account. Fee bills are not mailed. The Office of Bursar operations will notify students, via e-mail, when the online fee bills are available.

You may view your fee bills by accessing the fee bill link under "Registration Services" on your PAWS desktop. You may pay your fees via PAWS using an online check/bank draft, or a credit card, or in person at the Office of Bursar Operations using cash, check, or money order. A printable version of the fee bill, including remittance form, is available on your PAWS desktop. You may mail

the remittance form, with any payment due, to the Office of Bursar Operations. The University is not responsible for cash sent through the mail.

Please note that your registration must be completed by the published payment due date or the date that is listed on the online fee bill remittance stub. Students who do not pay fees by the deadline must pay a \$75 late reg. service charge when subsequently registering.

If you are in good financial standing with the University, you may elect to defer payment of one-half of the fees using PAWS in the "Defer Payment/ Payroll Deduction" application. A \$15 service charge will be assessed on all deferrals.

## Financial Obligation to the University

You will be subject to being dropped from the University as a result of failure to pay fees and/or other charges when due or when a check offered by you in satisfaction of an obligation to the University is not honored by the bank on which it was drawn. Due notice of the delinquency shall be given to you by the Office of Bursar Operations. There will be a charge of \$25 per returned check.

## REFUND OF FEES

Refund of the University fee, nonresident fee, and student health-services fee will be made on the following basis upon your official withdrawal. Please Note: "days of classes" are days on which regular classes are scheduled.

- before classes begin, 100 percent;
- during the first six days of classes (first three days in summer term), 90 percent;
- from day 7 through day 24 of classes (day 4 through day 12 in summer term), 50 percent;
- from day 25 of classes (day 13 of summer term) to the end of the semester, none.
- The registration fee is not refundable.
- No refunds for resignations will be processed for at least six weeks after registration.
- No refunds will be made to anyone who owes the University.
- Student-initiated resignations will not be completed until all money owed to the University is paid.
- Field service and transportation fees will be refunded on an individual basis upon recommendation of the department concerned.
- Reductions and increases of fees resulting from

student schedule changes will be refunded or charged in accordance with the above schedule.

- If you are a full-time student who becomes a part-time student after the last day to receive refunds, you will continue to be eligible for all student activity privileges.
- If you are in good standing at the University, registered in any semester or summer term, and volunteer for military service or are called to active duty in the armed forces before the day midsemester examinations begin, you will have the University fee, nonresident fee, and student health service fee refunded. If you are in good standing at the University and volunteer for military service, or are called to active duty in the armed services after midsemester examinations begin, you will be refunded 50 percent of the University fee, nonresident fee, and student health service fee.

### Refund of Housing Fees

Regulations governing refund of housing fees may be found in the LSU General Catalog.

## VETERANS' BENEFITS

The Office of Veterans' Affairs provides counseling and information for veterans attending LSU. Enrollment certifications to the Veterans' Administration are handled through this office, and all veterans and eligible dependents of deceased or disabled veterans are urged to establish contact with the Office of Veterans' Affairs when they arrive on campus.

If you are a new student and a veteran, and you wish to receive advance pay, you should notify this office at least 30 days prior to registration.

## FINANCIAL AID

Office of Undergraduate  
Admissions & Financial Aid  
1146 Pleasant Hall..... 578-3103

LSU administers all Title IV federal programs which are based on a student's demonstrated financial need. Funds received from the federal programs help students to cover school expenses, including tuition and fees, room and board, book and supplies, and transportation. All such programs are subject to regulations

authorized by the United States Department of Education, as well as University policies consistent with these federal regulations and are subject to change.

Detailed information on these programs can be found on the Internet at [www.lsu.edu/financialaid](http://www.lsu.edu/financialaid).

### Eligibility for Financial Aid

All students must meet the following criteria to apply for Title IV federal aid loans:

- Be enrolled as a regular student in a degree-granting or certificate program.
- Be a U.S. citizen or eligible non-citizen (permanent resident).
- Be enrolled at least half-time: Regular Semester 6 hours; Summer Semester 3 hours
- Not be in default on prior student loans or owe a refund on a federal grant.
- Be making Satisfactory Academic Progress as described in the section labeled "Satisfactory Academic Progress for Purposes of Financial Aid Eligibility."

### Application for Federal Financial Aid

Students who wish to apply for the programs described in this section should file either the Free Application for Federal Student Aid (FAFSA) or the Renewal Application. The FAFSA is available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). It is recommended that the application be filed no later than March 1 for summer or fall enrollment or October 1 for spring enrollment. These applications cover aid awarded for the upcoming academic year (beginning with the summer term) and must be made each year.

Once the Office of Student Aid & Scholarships has received your FAFSA, additional documentation will be requested through your PAWS accounts. To receive a loan for the academic year, the deadline to return all required documents is the first business day of May. To receive a semester only loan, the deadline to return all required documents is:

- Summer only loans: Last business day of July.
- Fall only loans: First business day of December.
- Spring only loans: First business day of May.

Once all documents are processed, an award letter will be sent via the student's PAWS account to allow them to accept or decline their aid. The deadline for a student to accept a loan is:

- Semester only loans: First day of final exams for that semester.

- Academic year loans (summer/fall/spring or fall/spring loans): First day of spring semester final exams.

It is most important for you to complete the financial aid application process early enough each year so that the amount of aid you have been awarded will appear on your fee bill as an anticipated financial credit. Otherwise, you will be responsible for the payment of your fees when you receive your bill. If payment is not received by the deadline indicated on your bill, your courses will be purged, and you will be required to pay the \$75 late registration service charge. Duplication of your original course schedule is not guaranteed if courses are purged for nonpayment.

### Campus-Based Programs

- Federal Perkins Loans—Low-interest (5 percent) loans made by LSU and repaid to LSU. Students must show financial need and be enrolled at least half-time. Deferment and cancellation privileges are available under certain circumstances. Funds are limited.

### Federal Family Education Loans

Students borrowing under the Federal Family Education Loans Programs described below are required by federal regulation to have an entrance counseling session before they receive their first disbursement at LSU. When a student borrower graduates, resigns, or otherwise ceases to be enrolled on at least a half-time basis at LSU, he/she is required to attend an exit counseling session. These counseling sessions can be accomplished at [www.nelliemae.com](http://www.nelliemae.com).

- Federal Stafford Loans—Based on financial need, this program enables students to borrow funds at a special low rate of interest from a participating lender. Payments are deferred until six months after the student ceases being enrolled on at least a half-time basis.
- Federal Unsubsidized Stafford Loans— This program enables students to borrow, regardless of need. Interest will accrue on this loan while the student is enrolled, and may be paid or capitalized as agreed by the borrower and the lender. The interest rate on the unsubsidized loan will be the same as on the Federal Stafford Loan.
- Graduate PLUS Loans—This program is a loan for graduate and professional students in their

own name. This loan will give these students a valuable federal loan alternative to private loans. Just like parent borrowers, these students will be able to borrow under the PLUS program up to the cost of education less other aid received. In addition, these borrowers will have to meet the same credit eligibility requirements that apply to parent borrowers.

Loan disbursements normally occur the week prior to the start of classes. Depending on the award package, loans will be disbursed accordingly: 1) summer, fall and spring loans will occur in three equal disbursements; 2) fall and spring loans will occur in two equal disbursements; and 3) semester only loans will disburse in two equal disbursements with one disbursement at the start of the semester and the second occurring at the midpoint of the semester.

### Alternative Loans

Alternative loans are a credit-based loan program that is available to students who have reached their federal loan limit but still need additional funding. For more information, visit [www.lsu.edu/alternativeloans](http://www.lsu.edu/alternativeloans).

### Satisfactory Academic Progress for Purposes of Financial Aid Eligibility

In order to receive financial aid, a student must be making "satisfactory academic progress." For the purpose of participating in any of the federal student aid programs, the LSU Faculty Senate Academic Standards and Honors Committee has defined the policy for determining Satisfactory Academic Progress for students. For more information, visit [www.lsu.edu/sap](http://www.lsu.edu/sap).

### Resignations/Unofficial Withdrawals

Students who receive financial aid funds and then resign or unofficially withdraw (cease attendance) during the first 60 percent of the enrollment period will be required to repay all or part of the aid they received. The amount of aid that must be returned is based on the period of time the student remained enrolled. Federal aid must be returned within 45 days to the appropriate programs in the following order: Unsubsidized Federal Stafford Loans, Subsidized Stafford Loans, Perkins Loans, and Graduate PLUS. The amount of aid to be returned will be calculated at the time of resignation. For unofficial withdrawals, the amount

will be calculated at the end of the enrollment period. Until this obligation is settled, requests for academic transcripts will not be processed and any further financial aid may be in jeopardy.

## Refunds

Students who receive financial aid funds and then officially resign from the University may be entitled to a partial refund of certain University fees, depending on the resignation date. Specific information regarding the refund schedule is available from the Office of the University Registrar.

### Short-Term LSU Loans

Full-time students, who have completed registration and have not received a credit balance check, may apply for short-term Hiram Student Loans in the amount of \$500. Students must not be on academic probation to receive these loans. Students must have repaid any prior short-term loans to be eligible. Loans are made starting on the first day of classes and continue for the first two weeks of classes to students who have not received a credit balance. Students are permitted a maximum of 60 days to repay the loan in full. A 2 percent service charge is assessed on the amount borrowed. This 2 percent service charge is equivalent to an annual interest rate of 12 percent.

Hiram Student Loans are to be repaid at the Office of Bursar Operations, 125 Thomas Boyd Hall, on or before the maturity date shown on the promissory note signed by the student at the time the loan was negotiated. Students who fail to repay Hiram Student Loans by the maturity date may jeopardize their chances of receiving future loans. Accounts that must be turned over to LSU's attorneys for collection are assessed an additional collection fee.

## Services for Students with Disabilities

Students with physical disabilities who must confer with a financial aid officer should contact the office for an appointment in advance so that appropriate accommodations can be made.

## Contact Information

For additional information, please visit the Office of Undergraduate Admissions & Student Aid in 1146 Pleasant Hall or by phone at 225/ 578-3103 or by email at [financialaid@lsu.edu](mailto:financialaid@lsu.edu).

## Scholarships Administered by the School of Veterinary Medicine

The scholarships and awards listed here are usually awarded on the basis of academic achievement, financial need, character, and citizenship. Normally, scholarship stipends are paid one-half during the fall semester and one-half during the spring semester. New and continuing students are given an opportunity to apply for scholarships in the fall semester. Awards are announced in the spring.

### Y. Z. Abdelbaki Memorial Scholarship

Awarded to a first-year veterinary student who has excelled in anatomy courses.

### Arkansas Veterinary Medical Foundation Jack R. Redman and Elizabeth G. Redman Scholarship

Awarded to Arkansas residents.

### Arkansas Veterinary Medical Foundation Outstanding Student Awards

Awarded to the two top Year IV students from Arkansas based on academic performance and leadership.

### Arkansas Veterinary Medical Foundation Scholarship

Awarded to Arkansas high school graduates based on financial need and academic achievement.

### \*Auxiliary to the LSU Student Chapter of the American Veterinary Medical Association Scholarship

Awarded to a student who balances academic and community activities.

### Auxiliary to the LSU Student Chapter of the American Veterinary Medical Association Married Student Award

Presented to married students in Years I-III who are active in SCAVMA.

### Auxiliary to the LSU Student Chapter of the American Veterinary Medical Association NAVLE Award

Awarded to support the cost of take the NAVLE.

### \*Brenda and William Banks Memorial Scholarship

Presented to a nontraditional female veterinary medical student who is completing Year I.

### \*Dr. Herbert C. Berger Scholarship

Awarded for academic excellence, an interest in small animal medicine, and the qualities of responsibility, professionalism, and leadership.

**\*M. Darnell Besch Scholarship**

Presented to deserving Year III students who have financial need, are active in SCAVMA, and present a positive attitude toward veterinary medicine.

**\*Baton Rouge SPCA Scholarship**

Presented to a Louisiana high school graduate currently enrolled in Years I-III in veterinary medicine.

**Bayou Kennel Club, Inc., Scholarship**

Awarded to northeast Louisiana student in veterinary medicine.

**\*Calcasieu Kennel Club Scholarship**

Awarded to a resident of the Old Imperial Calcasieu Parish based on scholarship ability and financial need.

**\*Opal Christiansen Memorial Scholarship**

Awarded to Arkansas high school graduates who plan to return to Arkansas to practice veterinary medicine.

**\*Sherri Ellen Cole Memorial Scholarship**

Awarded to veterinary medicine students to purchase books and supplies.

**Harold G. Forman Family Foundation Scholarship**

Awarded to a student based on academic excellence and financial need.

**Harold G. Forman Family Foundation Equine Scholarship**

Awarded to a student with an interest in equine medicine or surgery, based on academic excellence and financial need.

**\*Catherine M. Landry and Daniel Gillane Feline Studies Scholarship**

Awarded to a student with a demonstrated interest in feline medicine or diseases.

**The Robert M. Hammatt Award for Proficiency in Food Animal Medicine**

Awarded to student in Years I-III, based on scholarship, a strong interest in practicing food animal/mixed animal medicine, character, and love of the profession.

**\*Hill's Pet Nutrition Service Scholarship**

Presented to students in Years I-III, based on leadership, character, and contributions to the School of Veterinary Medicine.

**Herman W. and Estelle Z. Kutun Scholarship**

Awarded to a Louisiana resident based on financial need.

**LSU School of Veterinary Medicine Equine Health Studies Program Scholarship**

Presented to an active member of the student chapter of the American Association of Equine Practitioners in Years I-III who has demonstrated an interest in equine medicine.

**\*Perry B. Lecates, Sr., Memorial Scholarship**

Presented to veterinary medical students in Years I-III who have a special interest in farm animal medicine.

**Louisiana Academy of Veterinary Practice Companion Animal Scholarship**

Awarded to a Year III student based on academic achievement and proficiency in companion animal medicine and surgery.

**LSU SCAVMA Aesculapian Scholarship**

Awarded to students active in SCAVMA functions and activities.

**LSU SCAVMA Bookstore Scholarship**

Awarded to a veterinary student entering Years II-IV.

**LVMA/AAEP Foundation Scholarship**

Presented to Year III student who has demonstrated outstanding academic ability and commitment to the AEP and the pursuit of equine practice.

**\*Louisiana Veterinary Medical Association Outstanding Student Award**

Presented to veterinary medical student in Years II, III, and IV.

**\*Lorio Children Memorial Scholarship**

Presented to students in veterinary medicine who are Louisiana high school graduates.

**David L. Peterson Memorial Scholarship**

Awarded to a student with interest in a career in veterinary pathology and with academic excellence to attain a pathology residency.

**Pfizer Animal Health Veterinary Scholarship**

Presented to student in Year III of the professional curriculum.

**\*The Henry Chester Propes and Mary Wood Propes Memorial Scholarship**

Presented to a student with an interest in companion animal medicine; based on scholarship, leadership, and citizenship.

**Nestlé Purina Award for Excellence in Companion Animal Nutrition**

Presented to Year III student, based on academic achievements, collegiality, a strong interest in nutrition and physiology, and financial need.

**\*John D. Rhoades Leadership Scholarship**

Presented to Year III student who has expressed concern and compassion, professionalism, and citizenship and is an active leader of the student body.

**\*Salsbury Scholarship**

Awarded to third-year student, based on ability, initiative, perseverance, leadership, and financial need.

**Changaram Kumarath Sankunny Memorial Award in Veterinary Pharmacology**

Presented to a student in Year II with a special interest in research who excels in pharmacology.

**Schering-Plough Animal Health, Inc., Scholarship**

Awarded to Year II student, based on high academic standing and financial need.

**King-Solberger Scholarship**

Awarded to a resident of Louisiana or Mississippi based on scholarship, character, and financial need.

**\*Margaret Lucille Thomas Taylor Memorial Scholarship**

Awarded to student entering Years II, III, or IV; based on scholarship, financial need, and participation in activities that develop responsibility, leadership, citizenship, and professionalism.

**\*Peri Tumay, DVM, Memorial Fellowship**

Awarded to a female students with academic excellence in the top five percent of her class.

**Western Veterinary Conference Scholarship**

Based on need and leadership potential.

*\*Funded through an endowment to the LSU Foundation.*



# STUDENT SERVICES

## UNIVERSITY HOUSING

On-campus housing is available to graduate students. Rates for air-conditioned residence halls range from \$1,910 to \$2,305 per semester for each occupant. The University also has on-campus apartments available. These are furnished two-, three-, and four-bedroom apartments, with rental rates ranging from \$2,769 to \$3,234 per semester for each occupant. For families and graduate students, there are 578 unfurnished one-, two-, and three-bedroom apartments, with rental rates ranging from \$435 to \$560 per month. Additional information may be obtained from the Department of Residential Life, 99 Grace King Hall, Baton Rouge, Louisiana 70803; 225/578-8663 or by visiting the Web site at [www.lsu.edu/housing](http://www.lsu.edu/housing).

## DINING PLANS

Choosing an LSU Dining meal plan saves a student time and money. LSU Dining offers several locations across campus. Each facility offers a variety of selections that provide convenience, quality, and value. LSU Dining is committed to offering students services that they desire at an affordable price. Newly enrolled students living on campus are required to have a meal plan (excluding Tiger Lunch and Magnolia Room meal plans) for the fall and spring semesters.

- 5-Day Unlimited - \$1,394 (Unlimited meals & \$20 Paw Points) Meals can be used Monday breakfast through Friday lunch in the dining halls. The 5-Day Unlimited meal plan would be ideal for a student who goes home during the weekends and dines mostly in the dining halls, relying on few Paw Points. You may not share meals.
- Resident Tiger - \$1,284 (160 meals & \$100 Paw Points) The Resident Tiger provides approximately 10 meals per week. The Resident Tiger is ideal for the student who plans to dine mostly in the dining halls and for students who plan to stay on campus for most weekends.

- Tiger Ultra - \$1,257 (130 meals & \$200 Paw Points) The Tiger Ultra provides an average of 8 meals per week. The Tiger Ultra is ideal for the student who plans to eat mainly in the dining halls while having \$200 Paw Points to spend in our retail locations. The Tiger Ultra would be a good choice for the student who plans on going home on the weekends and eats approximately 2 meals per day in the dining halls.
- Tiger Plus - \$1,208 (120 meals & \$300 Paw Points) The Tiger Plus provides an average of 7 meals per week. The Tiger Plus would be a good choice for the student who remains on campus during the weekends and ate one meal per day in the dining halls. It also allows flexibility with using Paw Points in our retail outlets.
- Tiger Lite - \$1,129 (85 meals & \$400 Paw Points) The Tiger Lite provides an average of 5 meals per week. The Tiger Lite is ideal for the student who would prefer to use Paw Points to dine at LSU Dining's retail locations, while only having five meals per week in the dining halls. The abundance of Paw Points is also good for the student on the go, giving them the ability to grab snacks and groceries in between classes.
- Tiger Lunch - \$519 (55 lunches & \$100 Paw Points) The Tiger Lunch offers lunch Monday through Friday and is great for commuters and students who just want to eat lunch during the week.

## STUDENT HEALTH CENTER

The **Student Health Center** provides quality health care to LSU students. The center is fully accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). Facilities include a large outpatient medical clinic, a full-service pharmacy, a laboratory, an X-ray department, mental health services, and a wellness education department. All visits and inquiries are confidential.

The student health center fee, paid during registration, entitles students to unlimited visits

to a primary care physician during the regular semester. The first three visits to the Mental Health Service are also included in the pre-paid fee. Any subsequent visits are based on a sliding fee scale after consultation with the patient. There are additional charges for lab, X-ray, medication, supplies, and specialty clinics.

The **Student Health Center Medical Clinic** has six full-time primary care physicians, one full-time gynecologist, and 2 nurses. In addition, part-time specialty services are offered in orthopedics, dermatology, ear/nose/throat, and ophthalmology. A dental screening clinic is available, but no dental procedures are performed on the premises. Routine allergy shots and injectable medicines ordered by physicians are provided.

The **Mental Health Service** provides crisis intervention, individual and group therapy, psychological testing, and varied preventive therapy clinics on a continuing basis. These services are rendered by mental health providers experienced in treating emotional problems and stresses experienced by University students.

The **Student Health Center** also has an extensive Wellness Education Department. Services provided include a resource room and an interactive Web page ([www.lsu.edu/wellness](http://www.lsu.edu/wellness)). Individual appointments are available for consultations on nutrition and weight management; stress and time management; sexual and reproductive health concerns; alcohol and other drug abuse; smoking cessation; sexual assault and violence; and many other areas of concern to University students. Educational programs for student organizations and residence halls, as well as guest lectures for undergraduate and graduate classes, are available upon request throughout the entire year. Several peer education organizations offer service learning and leadership development experiences.

## STUDENT ACCIDENT AND SICKNESS INSURANCE PLAN

A special insurance plan is offered to students through an insurance company approved by

the University. This coverage is strongly recommended to relieve students of possible financial strain in meeting expenses for medical services that the Student Health Center does not provide. The University requires that all nonimmigrant international students enroll in the LSU Student Insurance Program at the time of registration or provide evidence in advance to the International Services Office of acceptable insurance.

## POSTAL SERVICE

University Station, Baton Rouge, Louisiana 70803-9998, is a federal government post office located in the LSU Union Building. Mail service is provided to students and faculty members who are post office box holders or who receive mail through University departments. The office is open from 9 a.m. to 4:30 p.m. Monday through Friday and closed on weekends and federal holidays. The window hours are adjusted during the holiday season and between semesters. The lobby, however, remains open when the office is closed so that mail may be picked up from post office boxes.

A post office box may be rented for the year or for six months. Post office boxes may be shared only with spouses, brothers, and/or sisters having the same last name. Rental fee information may be obtained by writing to: Manager, University Station, Baton Rouge, Louisiana 70803. General delivery service is not available. Please note that the 70893 zip code is for post office boxes 16000–19999 and 70894 is for post office boxes 2000–55000. All other department mail should carry the 70803 zip code.

All mail must be addressed to the student's box number since the University does not provide mail service to residence halls. "Special Delivery" and "Express Mail," however, will be delivered to residence halls if it is so addressed. Delivery service to the University-owned apartment complexes on Nicholson Drive and West Roosevelt Street is provided by the Main Post Office, 750 Florida Blvd., Baton Rouge, Louisiana 70802.

# COURSES OF INSTRUCTION

No credit is given for a course unless you have been duly registered in that course. The number of credit hours that a course carries per semester is listed in parentheses following the course title.

If the number listed is variable, i.e., "2-4," the amount of credit that you are to receive must be stated at the time of registration. Any subsequent change in the amount of credit will be permitted only during the period when courses may be added for credit. Indication of variable credit does not mean that a course can be repeated for credit. If a course can be repeated for credit, that information is included in the course description.

No graduate credit is allowed for work taken in a class that includes a freshman or sophomore student, or that is taught by an instructor who is not a member of the graduate faculty. Graduate credit is not given for undergraduate courses taken as prerequisites for graduate courses.

## COURSE NUMBERING SYSTEM

The meaning of the first digit of the four digit number preceding each course description in this bulletin is explained below. The meaning of the second, third, and fourth digits varies by department.

**4000-4999** • For advanced undergraduate students (those who have completed a minimum of 60 semester hours), and for students in graduate and professional schools and colleges; for undergraduate or graduate credit. Undergraduates with 30 or more semester hours who are making timely progress toward a degree may be admitted to 4000-level courses if they have a grade-point average of 3.50 or higher, the appropriate prerequisites, and consent of the instructor.

**5000-5999** • For students in post-baccalaureate professional programs (law and veterinary medicine).

**6000-6999** • Exclusively for teachers at the

elementary, secondary, and junior college levels.

**7000-7999** • For students in Graduate School; for graduate credit only except as follows. Undergraduates with 75 or more semester hours who are making timely progress toward a degree may be admitted to 7000-level courses, if they have a grade-point average of 3.50 or higher, the appropriate prerequisites, consent of the instructor, and consent of the graduate dean. Credit so earned will apply only toward undergraduate degree requirements.

**8000-8999** • Research courses exclusively for graduate students, primarily for students working toward the master's degree; for graduate credit only.

**9000-9999** • Research courses exclusively for graduate students, primarily for advanced graduate students working toward the doctoral degree; for graduate credit only.

The 5000-level professional courses listed in this bulletin are for students in the School of Veterinary Medicine only. Prerequisite for enrollment in these courses is formal admission to the professional curriculum in the School of Veterinary Medicine. All courses must be taken in the proper sequence, as each is a prerequisite for the succeeding course. Some courses are designated as Veterinary Medicine (VMED) courses rather than departmental courses because of the integration of disciplines.

Phase I includes all courses taken in Years I and II, the fall semester of Year III, and the first four weeks of the spring semester of Year III. Phase II includes the clinical rotations that begin in the middle of February of Year III and occur continuously until graduation at the end of the spring semester of Year IV.

The 7000-level courses designated as Veterinary Medicine (VMED) are utilized by all concentrations in the veterinary medical sciences program.

### Key to Course Information

VMED.....	Course rubric	F .....	Offered in fall	V .....	Offered irregularly
5101.....	Course number	S .....	Offered in spring	E ..	Offered even-numbered years
(3).....	Course credit	Su.....	Offered in summer	O ..	Offered odd-numbered years

## PROFESSIONAL COURSES

### Veterinary Medicine • VMED

#### 5001 Problem-Based Learning I (2) 80

*contact hours.* Small group problem-based learning using clinical veterinary cases, with emphasis on the problem-oriented approach to veterinary problem solving.

#### 5002 Problem-Based Learning II (2) 80

*contact hours.* Continuation of VMED 5001. Small group problem-based learning using clinical veterinary cases, with emphasis on the problem-oriented approach to veterinary problem solving.

#### 5003 Problem-Based Learning III (2) 80

*contact hours.* Continuation of VMED 5002. Small group problem-based learning using clinical veterinary cases, with emphasis on the problem-oriented approach to veterinary problem solving.

**5010 Special Topics in Veterinary Medicine (0.5-2.5) Pass/fail grading. 10-40 contact hours.**

#### 5011 Advanced Veterinary Anesthesiology and Surgery (1.5) 31 contact hours.

Advanced veterinary surgery and anesthesiology.

#### 5100 Introduction to Veterinary Medicine I (0.5) Pass/fail grading. 11 contact hours.

Survey of career opportunities in the veterinary profession.

#### 5102 Introduction to Veterinary Medicine II (0.5) Pass/fail grading. 11 contact hours.

Continuation of VMED 5100. Survey of career opportunities and other issues in the veterinary profession.

#### 5103 Principles of Problem Solving (1) 20 contact hours.

Introduction to problem solving methodology, clinical problem solving, problem-based learning, problem-oriented approach, and information management.

#### 5104 Principles of Diagnostic Imaging (1)

*20 contact hours.* Basic principles of radiation physics, radiography, radiation safety, radiology, ultrasonography, computed tomography,

and magnetic resonance imaging in veterinary medicine; emphasis on the normal radiographic anatomy of the canine, feline, equine, and bovine using selected case examples.

#### 5105 Principles of Diagnostic Imaging II

**(0.5) 8 contact hours.** Continuation of VMED 5104.

#### 5110 Biochemistry and Membrane/muscle Physiology (3) 53 contact hours.

Basic biochemical structures and mechanisms; metabolic systems and controls; basic membrane and muscle dynamics.

**5111 Veterinary Physiology I (3) 50 contact hours.** Basic cardiovascular and gastrointestinal system dynamics.

**5112 Veterinary Physiology II (2.5) 50 contact hours.** Basic renal and respiratory system dynamics.

#### 5123 Basic and Applied Anatomy I (3.5) 77

*contact hours.* Principles of macroscopic anatomy, basic structure, and applied anatomy of the bones, muscles, and joints of the thoracic limb, pelvic limb, and trunk; dissection of the dog, with relevant comparisons to the horse and domestic ruminants.

#### 5124 Basic and Applied Anatomy II (3)

*78 contact hours.* Introduction to the nervous system; anatomy of the blood vessels and nerves of the thoracic and pelvic limb; the equine digit; comparative anatomy of the head, including the skull and mandible, nasal cavity and paranasal sinuses, ear, oral cavity, teeth, larynx, cranial nerves, surface of the brain and its coverings, and blood supply.

#### 5125 Basic and Applied Anatomy III (4)

*108 contact hours.* Anatomy of the neck and trunk, thoracic and pleural cavities, thoracic viscera; introduction to the autonomic nervous system; the abdominal wall, abdominal viscera, pelvic cavity, and viscera of the urinary and reproductive systems of domestic animals.

#### 5126 Cell Biology and Histology (3) 58

*contact hours.* Basic cell and tissue biology;

glandular and nonglandular epithelia, connective tissue, muscle, hematopoietic tissue, and the cardiovascular, pulmonary, and immune systems of veterinary species.

**5127 Histology and Developmental Anatomy (4) 74 contact hours.** Continuation of VMED 5126. Cell and tissue biology of the digestive, endocrine, reproductive, integumentary, urinary, visual, and auditory systems; early embryonic development of veterinary species.

**5130 Veterinary Bacteriology and Mycology (4) 75 contact hours.** Comparative biology of medically significant bacteria and fungi, emphasis on principles of pathogenesis and resistance to host responses, laboratory diagnosis, microbial sensitivity determination, resistance to chemotherapeutics, and intervention outcomes.

**5171 Neuroscience (3) 54 contact hours.** Anatomy of the nervous system of domestic mammals; development and internal organization of the spinal cord and brain; physiology of the neuron and synapse; spinal functions, reflexes, and motor systems; proprioceptive, somatosensory, auditory, vestibular, visual, olfactory, and gustatory systems; autonomic nervous system; higher CNS functions and disease; basis for neurological examination.

**5172 Veterinary Immunology (1.5) 30 contact hours.** Introduction to the concepts and principles of modern veterinary immunology, with emphasis on understanding the underlying mechanisms responsible for both protective and pathologic immune responses; understanding of the basic principles of immunological effector functions and immune regulation.

**5173 Veterinary Pathology (3) 50 contact hours.** Concepts, pathogenesis, and gross, microscopic, and ultrastructural changes associated with general pathology: cell injury and death, tissue mineralization, tissue pigmentation, disturbances of tissue growth, disturbances of circulation, and inflammation; recognition of gross, microscopic, and ultrastructural tissue changes and pathogenesis.

**5202 Animals in Society I (0.5) 11 contact**

*hours.* Pass/fail grading. Human-animal relationships, human-animal bond, pet facilitated therapy, animal welfare, and animal rights.

**5203 Animals in Society II (0.5) 11 contact hours.** Issues in companion animal, equine, farm animal, and captive, exotic animal behavior.

**5223 Veterinary Pharmacology (4.5) 70 contact hours.** Fundamental principles of drug actions; drug disposition, pharmacokinetics and mechanisms of action; major classes of drugs used in veterinary practice; emphasis on fundamentals of drug action and clinical application.

**5235 Veterinary Parasitology (4) 80 contact hours.** Morphology, physiology, and taxonomy of arthropods, protozoa, and helminths of veterinary importance; aggressive mechanisms of helminths, arthropods, and protozoa as well as defense mechanisms of the host; host-parasite relationships; diagnostic methods; mechanisms and factors influencing effectiveness of antiparasitic compounds and other control methods.

**5236 Veterinary Virology (2) 32 contact hours.** Comparative morphology, biochemistry, and classification of animal viruses; viral multiplication and pathogenesis; virus-host cell interactions and host responses to viral infections; rationale behind viral diagnostics and viral vaccines.

**5241 Systemic Pathology I (4.5) 100 contact hours.** Diseases, disease processes, and disease mechanisms in selected organ systems with emphasis on species of interest in veterinary medicine.

**5242 Systemic Pathology II (1.5) 30 contact hours.** Diseases, disease processes, and disease mechanisms in selected organ systems; emphasis on species of interest in veterinary medicine.

**5253 Epidemiology and Public Health (3) 45 contact hours.** Basics of veterinary epidemiology and public health; including regulatory medicine, environmental issues, food safety, foreign animal disease, food- and water-borne diseases of humans, agro- and bioterrorism, and zoonotic diseases.

**5260 Principles of Veterinary Surgery (1.5)**

*25 contact hours.* Principles and fundamental techniques of veterinary surgery.

**5261 Diseases of the Cardiovascular**

**System (2) 33 contact hours.** Principles of the diagnosis and treatment of acquired and congenital cardiovascular diseases of domestic animals.

**5262 Small Animal Orthopedics (1.5) 25**

*contact hours.* Common orthopedic problems encountered in small animal practice; developmental and traumatic abnormalities affecting the musculoskeletal system of the dog and cat.

**5263 Urinary System Diseases (2) 30 con-**

*tact hours.* Clinical applications of renal physiology; characterization, diagnosis, and treatment of diseases of the urinary system of domestic animals.

**5264 Diseases of Dogs and Cats (3.5) 58**

*contact hours.* Basic principles, diagnosis, and treatment of common diseases/conditions involving small animals.

**5265 Avian, Zoo, and Exotic Animal Diseases (3) 50 contact hours.**

Principles of diagnosis, treatment, medicine, surgery, and control of diseases of companion birds and rodents, raptors, ferrets, rabbits, zoo, exotic, and marine animals.

**5266 Diseases of Farm Animals (4) 70**

*contact hours.* Principles of diagnosis, treatment, prevention, and control of diseases/conditions of cattle, goats, sheep, and swine.

**5267 Veterinary Anesthesia (1.5) 26 con-**

*tact hours.* An introduction to the principles and practices of veterinary anesthesiology.

**5270 Clinical Pathology and Diseases of the Hemolymphatic System (4) 80 contact**

*hours.* Introduction and application of principles and techniques of hematology; clinical chemistry, exfoliative cytology, and body fluid analysis; diagnosis, management, and treatment of diseases of the hemolymphatic system in equine, farm animal, and companion animal species.

**5272 Veterinary Clinical Oncology (2) 30**

*contact hours.* Fundamentals of oncology, including the basics of mutagenesis, oncogenesis, tumor immunology, tumor epidemiology, diagnosis, and therapy in animals.

**5273 Endocrine and Metabolic Diseases**

**(2.5) 44 contact hours.** Introduction to the normal structure and function of the endocrinologic and metabolic systems; overview of important endocrine diseases of veterinary species.

**5320 Large Animal Clinical Nutrition (1)**

**20 contact hours.** Nutrition of horses, swine, dairy cattle, beef cattle, and small ruminants; feed ingredients, commercial feeds, and feed labels; diet formulation and evaluation; nutrient requirements and feeding practices for the healthy animal; nutrient deficiencies; nutritional prevention and/or management of specific disease conditions.

**5325 Small Animal Clinical Nutrition (1) 20**

*contact hours.* Nutrition of dogs, cats, pet birds, and exotic species; nutrient requirements and feeding practices for the healthy animal; nutrient deficiencies; nutritional prevention and/or management of specific disease conditions.

**5361 Theriogenology (5) 96 contact hours.**

Reproductive endocrinology and physiology, including pregnancy, parturition, and lactation; diagnosis, therapy, and control methods in theriogenology (animal reproduction); perinatology; embryo transfer in domestic animals; preventive programs.

**5362 Diseases of Horses (4) 76 contact**

*hours.* Diagnosis and management of diseases in horses; emphasis on recognition of disorders; diagnostic techniques; medical and surgical management.

**5363 Critical Care (1) 20 contact hours.**

Basic principles of emergency and critical care medicine, including triage of the trauma patient, fluid therapy in multiple species, CPR, and monitoring of the critically ill patient.

**5364 Neurology and Ophthalmology (3)**

**50 contact hours.** Comparative anatomy and

physiology, pharmacology diagnosis, and therapy of diseases of the eye and nervous system in domestic animals.

**5365 Integumentary System (2.5) 40 contact hours.** Diagnosis, treatment, and surgery of important skin and ear diseases and skin wound management in domestic animals.

**5366 Population Medicine (2.5) 41 contact hours.** Overview of disease control and prevention as it applies to animal populations; food and fiber production units and the equine industry are stressed.

**5370 Ethics and Jurisprudence (1) 13 contact hours.** Introduction to veterinary ethics and the law; their relationship to the veterinary profession.

**5371 Practice Management (1) 20 contact hours.** Principles of analysis and decision making related to a professional, client-oriented practice; concepts in communication, practice promotion, finance, and personnel management for optimum efficiency and return on investment.

**5372 Clinical Immunology and Infectious Diseases (2.5) 40 contact hours.** Principles of diagnosis, treatment, and control of infectious diseases.

**5373 Toxicology (2.5) 40 contact hours.** Toxicology of various natural and synthetic toxicants in relation to the prevention, diagnosis, and treatment of common intoxications in domestic animals.

**5441 Diagnostic Microbiology (1) 40 contact hours.** Clinical application of laboratory services for the diagnosis of immunological and infectious diseases.

**5442 Diagnostic Parasitology (1) 40 contact hours.** Clinical application of laboratory services for the diagnosis of parasitic diseases.

**5443 Anesthesiology (2) 80 contact hours.** May be taken for a maximum of 4 hrs. of credit. Practice of anesthesia, including technical skills, monitoring tools, and pain management in a variety of species.

**5452 Diagnostic Pathology (4) 160 contact hours.** May be taken for a maximum of 12 hours of credit. Necropsy of various vertebrate animal species, with emphasis on domesticated animals; application of diagnostic procedures and techniques in anatomic and clinical pathology; case-based, problem-oriented approach to diagnostic problem solving utilizing current teaching hospital and referral cases and prepared materials that illustrate the aspects of disease mechanisms, pathogenesis, tissue changes, and factors needed for accurate diagnoses.

**5454 Radiology and Diagnostic Imaging (4) 160 contact hours.** Applications of procedures, methods, and techniques in veterinary radiography, radiology, and diagnostic ultrasound.

**5455 Avian, Zoo, Exotic, and Marine Animal Medicine (1-4) 40-160 contact hours.** Avian, zoo, exotic, and marine animal care and management; clinical application of diagnostic, treatment, and control methods for avian, zoo, exotic, and marine animal diseases; client interaction related to didactic information learned in preclinical course; primary and intensive care medicine, client education, practice management review.

**5456 Canine and Feline Medicine and Preventive Health (4) 160 contact hours.** Application of diagnostic, therapeutic, and control methods for canine and feline diseases; primary and intensive care medicine; preventive health care; medical techniques; problem-oriented approach, client education, practice management; case studies in small animal clinic.

**5457 Companion Animal Surgery (4) 160 contact hours.** Diagnostic, treatment, and surgical techniques and procedures in companion animals; surgical problems, preoperative and postoperative patient care; anesthetic techniques; client education and practice management; case studies in the small animal clinic.

**5458 Equine Medicine and Surgery (4) 160 contact hours.** Diagnostic, treatment, and control methods for equine diseases; surgical procedures, methods, and techniques in horses;

study of medical and surgical cases in the large animal clinic.

**5460 Applied Veterinary Dermatology (2) 80 contact hours.** May be taken for a maximum of 4 hrs. of credit. Diagnostic, treatment, and control methods for skin diseases of domestic animals; history taking; physical and dermatological examination; technical, problem-solving, and communication skills; participation in rounds, with emphasis on improving clinical proficiency; dermatological knowledge base and patient management; emphasis on responsibility and interpersonal relationships.

**5461 Elective (1-5) 40-200 contact hours.** Students have the option of repeating part or all of one or more of VMED 5451 through 5460 in which they have a special interest.

**5462 Precepteeship (2-5) 80-200 contact hours.** Pass/fail grading. May be repeated for credit. Registration for this optional program must be approved by the director of Veterinary Clinics. Two- to five-week training period for fourth-year students with a private practitioner of veterinary medicine or with a qualified veterinary specialist.

**5463 Special Training (1-5) 40-200 contact hours.** May be repeated for credit. Registration for this course must be approved by the instructor and the department head involved. Training for veterinary medical students or advanced studies students in one or more clinical specialty areas of basic science disciplines.

**5465 Theriogenology (1-4) 40-160 contact hours.** Diagnostic, treatment, and control methods in theriogenology; emphasis on economics of reproductive herd health of domestic livestock and breeding management of horses and companion animals; fertility assessment of the male and female animal; obstetrics; artificial insemination and embryo transfer techniques.

**5467 Applied Veterinary Ophthalmology (1-4) 40-160 contact hours.** Special training in diseases and surgery of the eye; clinical experience in ophthalmic diagnostics, therapeutics, and surgery.

**5468 Farm Animal Health Management (4) 160 contact hours.** Diagnostic, medical, surgical treatments, and herd health management of medical and surgical cases in the large animal clinic and in field services; health programs and outreach disease problem solving.

**Examples of possible topics that may be offered as VMED 5010, Special Topics in Veterinary Medicine:**

**Courses offered to first- and second-year students:**

- Biomedical Instrumentation
- Clinical Relevance of Renal Physiology
- Critical Review of the Veterinary Literature
- Diseases of Aquatic Animals
- Electronic Resources for the Practicing Veterinarian
- Emerging and Exotic Animal Diseases
- Fetal Infections, Abortions, and Reproductive Failure in Animals
- Functional Anatomy of Aquatic Animals
- Fundamentals of Large Animal Husbandry
- Human-Animal Bond
- Husbandry Considerations for the Non-traditional Pet
- Introduction to Anesthesia Machines and Monitoring Equipment
- Introduction to the Cat and Feline Medicine
- Introduction to Cetacean Anatomy and Histology
- Introduction to Flow Cytometry
- Introduction to Laboratory Animal Medicine
- Introduction to Raptor and Wildlife Medicine and Surgery
- Introduction to Restraint and Anesthetic Techniques in Selected Exotic Species
- Introduction to Smooth Muscle Physiology
- Methods of Evoked Potentials in Clinical Medicine
- Molecular Control of the Inflammatory Response: Possibilities for Therapeutic Intervention
- Ornamental Fish Medicine
- Principles of Canine Learning and Training
- Structure and Function of Skin and Skin Appendages of Domestic Animals
- Teratology
- Veterinarians in the Community

- Veterinary Medicine in International Development
  - Water Quality Analysis of Aquatic Systems
  - What Veterinarians Should Know about Veterinary Politics and Why It Matters
- Courses offered to second year students only:
- Case-based Introduction to Large Animal Medicine and Surgery
  - Clinical Cases in Urology
  - Clinical Pharmacology of Antimicrobial Agents
  - Problem-oriented Approach to Equine Medicine
  - Selected Topics in Food Animal Medicine and Surgery
  - Selected Topics in Feline Medicine
  - Small Animal Physical Rehabilitation

#### Courses offered to third and fourth year students:

- Advanced Bovine Theriogenology
- Advanced Companion Animal Medicine
- Advanced Companion Animal Neurology
- Advanced Companion Animal Soft Tissue Surgery
- Advanced Companion Animal Orthopedic Surgery
- Advanced Equine Gastrointestinal Diseases
- Advanced Equine Musculoskeletal
- Advanced Equine Problem Solving
- Advanced Equine Respiratory Disease
- Advanced Equine Surgery
- Advanced Equine Urogenital Problem Management
- Advanced Neurology and Behavior
- Advanced Practice Management
- Advanced Small Animal Gastroenterology
- Case Studies in Small Animal Clinical Cardiology
- Case Studies in Small Animal Clinical Dermatology
- Diagnostic and Surgical Techniques in Exotic Animal Medicine
- Feedlot Medicine
- Introduction to Acupuncture
- Selected Topics in Feline Medicine
- Selected Topics in Veterinary Dentistry
- Small Ruminant Medicine and Surgery
- Soft Tissue Surgery: Beyond the Basics
- Veterinary Vaccines

## GRADUATE COURSES

### Comparative Biomedical Sciences • CBS

**7001 Seminar: Comparative Biomedical Sciences (1) F,S** *May be taken for a max. of 8 hrs. of credit.* Reports and discussions on topics of current interest in various scientific disciplines.

**7002 Research Techniques in Comparative Biomedical Sciences (1-4) F,S,Su** *Maybe taken for a max. of 8 hrs. of credit when topics vary.* Specialized research techniques related to selected scientific disciplines in the department.

**7003 Special Topics in Comparative Biomedical Sciences (1-4) F,S,Su** *May be taken for a max. of 8 hrs. of credit when topics vary.* Specialized coverage of a variety of topics related to selected scientific disciplines in the department.

**7104 Biomedical Cell and Molecular Biology (3) F,S** *Prereq.: consent of instructor.* Essential concepts of cell and molecular biology; cellular ultrastructure and function; basic genetic mechanisms in normal and transformed cells; methods of gene analysis; proteomics; molecular therapy and molecular approaches to disease diagnosis.

**7105 Ultrastructural Cytology (3) S** *Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab.* Fine structure of animal cells and cell products; relationships of ultrastructure to function; interpretation of cytochemical reactions.

**7106 Biomedical Electron Microscopy (4) F,S** *Prereq.: consent of instructor. 1 hr. lecture; 8 hrs. lab.* Preparation of tissues including biopsies for transmission and scanning electron microscopy; operation of SEMs, TEMs, and ancillary equipment.

**7108 Critical Analysis in Molecular biology/Medicine (3) F** *instruction/participation.* Formal presentations of research data. Discussion and presentations are drawn from landmark biomedical publications.

**7109 Advanced Macroscopic Anatomy (1-3)**

*Prereq.: consent of instructor.* May be repeated for credit when topics vary. Specialized dissection of one or more of the following: dog, horse, ruminants, laboratory, exotic, or avian species.

**7112 Advanced Microscopic Anatomy (1-3)**

*Prereq.: consent of instructor. May be repeated for credit when topics vary.* Comparative or systemic microscopic anatomy of selected organs or organ systems of domestic, laboratory, or exotic species.

**7603 Clinical Toxicology (3) S**

*Prereq.: CBS 7623 and consent of instructor.* Pathophysiology of various clinically important toxicants; prevention, diagnosis, and treatment of common intoxications in domestic animals.

**7614 Central Nervous System (3) V**

*Prereq.: CBS 7631 or equivalent.* Neurotransmitter mechanisms, chemistry, and anatomical distribution; neuropharmacology; synaptic physiology and anatomy of selected brain regions; central nervous system diseases.

**7615 Pulmonary Pharmacology (3) V**

*Prereq.: CBS 7630.* Mechanisms of action and applications of various drugs used in respiratory disorders.

**7617 Autonomic Nervous System (3)**

*Prereq.: CBS 7631 or equivalent.* Structure, physiology, pharmacology, and diseases of the autonomic nervous system.

**7627 Mechanisms of Toxicity in Aquatic Animals (4) F-V**

*Prereq.: organic chemistry, biochemistry, and physiology recommended.* Examination of mechanisms of contaminant toxicity in context with the unique physiological, biochemical, and structural features of aquatic animals and the environment.

**7628 Biomedical Physiology I (3) F,S**

*Prereq.: consent of instructor.* Physiological mechanisms underlying the cardiovascular and gastrointestinal systems of domestic species.

**7629 Biomedical Physiology II (3) F,S**

*Prereq.: consent of instructor.* Physiological mechanisms underlying the respiratory and renal systems of domestic species; emphasis on system control.

**7630 Biomedical Pharmacology (4) F,S**

*Prereq.: vertebrate physiology, biochemistry, or equivalent; consent of instructor. 3.5 hrs. lecture; 0.5 hrs. lab.* Comparative study of the pharmacodynamics, disposition, kinetics, and therapeutic utility of drugs in animals.

**7631 Biomedical Neuroscience (3) F, S**

*Prereq.: consent of instructor. 2.5 hrs. lecture; 0.5 hrs. lab.* Physiological and anatomical mechanisms underlying the nervous system.

**Pathobiological Sciences • PBS****7001 Seminar: Pathobiological Sciences**

**(1) S, F** *May be taken for a max. of 6 sem. hrs. of credit.* Topics of current interest in various disciplines of veterinary medicine.

**7002 Pathobiological Sciences Research Techniques (1-4) V**

*May be taken for a max. of 6 sem. hrs. of credit.* Specialized research techniques related to a specific discipline of pathobiological sciences.

**7003 Special Topics in Pathobiological Sciences (1-4) V**

*Prereq.: consent of instructor. May be taken for a max. of 8 hrs. of credit.* Topics of current interest in pathobiological sciences.

**7004 Current Literature in Pathobiological Sciences (1) V**

*May be taken for a maximum of 6 hrs. of credit.* Pass/fail grading. Review of the literature in areas of pathobiological sciences presented in a discussion format.

**7301, 7302 Principles and Methods of Epidemiology and Disease Control I, II (4,4)**

*7301 offered F; 7302 offered S Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab.*

Ecological and epidemiological concepts used in studying diseases in populations; epidemiological methods, with laboratory exercises emphasizing problem solving; epidemiological principles applied

to disease control; planning, administration, and evaluation of disease-control programs.

**7310 Zoonotic Infectious and Parasitic Diseases (3)** *F-E Prereq.: BIOL 4121 and 4122 or equivalent.* Epidemiology, ecology, and control of major infectious and parasitic zoonoses.

**7312 Epidemiological Study Design (4)** *S* Introduction to the basic concepts of epidemiology with emphasis on the appropriate use and interpretation of epidemiological methods.

**7404 Pathogenic Mechanisms of Bacteria (3)** *V Prereq.: BIOL 4094, 4121, and 4122 or equivalent.* Relation of bacterial structure and function to the induction of disease; virulence factors, mechanisms of host-parasite interaction; vaccine strategies.

**7410 Biochemistry of Viruses (3)** *S-E Prereq.: BIOL 4094 or equivalent.* See BIOL 7289.

**7411 Molecular Mechanisms of Viral Pathogenesis (3)** *S-E Prereq.: BIOL 4190 or VMED 5230 or equivalent.* Virus-host interactions in disease induction emphasizing virus receptors and cell tropism, persistence and latency, oncogenesis, virus-induced immune suppression, and adverse responses of the host.

**7413 Techniques in Flow Cytometry (1)** *F-O Prereq.: credit or registration in PBS 7423 or equivalent. 2 hrs. lab.* Instruction and laboratory practices in principles and applications of flow cytometry; topics include cell processing and staining with fluorescent probes as a measurement of immunophenotyping, DNA, and functional assays as well as computer generated data analysis.

**7415 Current Experimental Methods in Parasitology (1-4)** *F-O Prereq.: a course in parasitology or equivalent. 2-8 hrs. lab. May be taken for a max. of 4 sem. hrs. when animal groups vary.* Specialized laboratory methods used to produce experimental infections, diagnose parasitism and recover and identify protozoan and helminth parasites of ruminants, horses, pigs, and companion animals.

**7416 Mechanisms of Cellular Immunology and Immunopathology (3)** *S Prereq.: BIOL 4121 or equivalent.* Mechanisms involved in the development of protective and pathologic immune responses; emphasis on the humoral and cellular components of inflammation and immune response to microbial infections.

**7417 Immune Response to Infectious and Parasitic Agents (3)** *F-E Prereq.: introductory course in immunology.* Immune mechanisms in controlling or exacerbating disease caused by bacteria, viruses, protozoa, helminths, and arthropods; modern principles of vaccine development and trends in application.

**7419 Population Dynamics and Ecology of Parasitic and Vector-Borne Diseases (3)** *S-O Prereq.: course in parasitology or equivalent.* Population regulation and distribution of parasitic and vector-borne diseases of veterinary and medical significance; disease risk in population models, transmission dynamics, climate, nutrition, immunity, geographic information systems, and herd health programs.

**7423 Cellular and Molecular Immunology (3)** *F-O Prereq.: BIOL 4121 or equivalent.* Cellular and molecular basis for the immune response; emphasis on molecular structure and function of antibodies and other receptors; role of lymphocyte subsets and cytokines in regulation of immune responses.

**7424 Diseases of Aquatic Animals (3)** *F-E Prereq.: consent of instructor.* Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as RNR 7424.

**7501 Veterinary Cellular Pathology (3)** *F Prereq.: DVM degree or equivalent and consent of instructor.* Basic mechanisms of pathogenesis and morphogenesis of disease at the cellular level; encompasses ultrastructural to functional pathologic changes in cells and extracellular matrix.

**7502 Advanced Systemic Veterinary Pathology (5) V Prereq.:** *DVM degree or equivalent and credit or concurrent enrollment in PBS 7516.* Study of diseases by organ systems, using electron and light microscopy; pathogenesis of specific diseases.

**7508 Histopathology Slide Conference (1) F,S Prereq.:** *DVM degree or equivalent and consent of instructor.* May be taken for a max. of 4 hrs. of credit when topics vary. Histopathological aspects of diseases in various animal species; direct student participation in morphological description and literature review.

**7509 Surgical Pathology (1-2) V Prereq.:** *DVM degree or equivalent and PBS7516.* May be taken for a max. of 6 sem. hrs. credit when topics vary. Gross and microscopic examination of surgery-derived specimens of diseased tissues from various animals; clinical case interpretation, histopathological description, diagnosis, prognosis, and consultation techniques.

**7513 Pathology of Neoplasia (2) V Prereq.:** *DVM degree or equivalent and PBS 7501.* 1 hr. lecture; 1 hr. lab. Comparative gross, microscopic, immunochemical, and pathogenetic study of naturally occurring neoplastic disease in animals.

**7514 Laboratory Animal Pathology (2) V Prereq.:** *DVM degree or equivalent and consent of instructor.* Macroscopic, microscopic, and pathogenetic study of the infectious, nutritional, degenerate, and toxic diseases that affect the commonly used species of laboratory rodents, rabbits, and primates.

**7515 Veterinary Dermatopathology (2) V Prereq.:** *DVM degree or equivalent and PBS 7516.* 1 hr. lecture; 2 hrs. lab. Histopathological evaluation of integumentary system, tissue response, and diseases of various animal species of veterinary importance.

**7516 Advanced Diagnostic Pathology of Animals (1-2) V Prereq.:** *DVM degree or equivalent.* May be taken for a max. of 6 sem. hrs. of credit when topics vary. Necropsy of various animals submitted for post-

mortem examination: gross, light, and electron microscopy; and immunohistochemistry; correlation and synthesis of clinical information, anatomical finding, and other ancillary laboratory results, for an accurate determination of disease diagnosis and pathogenesis.

**7525 Advanced Veterinary Clinical Pathology (1-2) V Prereq.:** *DVM degree or equivalent.* May be taken for a max. of 6 sem. hrs. of credit when topics vary. Diagnosis and pathogenesis of hematological and clinical chemistry changes in blood from various animal species; understanding the applicable instrumentation, and methodologies of assays and quality assurance; interpretation of cytological specimens (tissue and fluids) and correlation with clinical and histopathological findings.

**7530, 7531, 7532 Laboratory Animal Science I, II, III (2, 2, 2,) F,S,Su Prereq.:** *DVM degree or equivalent and consent of instructor.* Biology, husbandry, diseases, medical care, regulations, and experimental uses of the commonly used laboratory animal species; courses need not be taken in sequence.

## Veterinary Clinical Sciences • VCS

**7001 Seminar: Veterinary Clinical Sciences (1) V Prereq.:** *DVM or equivalent degree or consent of instructor.* May be taken for a max. of 8 hrs. of credit when topics vary. New developments in veterinary internal medicine, surgery, dermatology, ophthalmology, cardiology, neurology, theriogenology, and laboratory/exotic animal medicine.

**7002 Research Techniques in Veterinary Clinical Sciences (1-4) Prereq.:** *appropriate 4000- or 5000- level course in selected topic or equivalent and consent of instructor.* May be taken for a max. of 6 sem. hrs. when topics vary. Specialized research techniques related to a specific discipline of veterinary clinical sciences.

**7003 Special Topics in Veterinary Clinical Sciences (1-4) Prereq.:** *appropriate 4000- and 5000- level course in selected topic or equivalent and consent of instructor.* May

*be taken for a max. of 8 sem. hrs. of credit when topics vary.* Aspects of the biochemical, physiological, pathophysiological, epidemiological and economic basis of clinical veterinary medicine.

**7201 Veterinary Gastroenterology (2) V** *Prereq.: DVM or equivalent degree or consent of instructor.* Gastrointestinal diseases and related conditions; emphasis on diagnostics, pathophysiology, and management options.

**7202 Veterinary Surgical Techniques (1) V** *Prereq.: DVM or equivalent degree or consent of instructor. 3 hrs. lab.* May be taken for a max. of 6 hrs. of credit when topics vary. Advanced surgical and experimental techniques related to an organ system.

**7204 Advanced Veterinary Orthopedics (2) V** *Prereq.: DVM or equivalent degree or consent of instructor.* Bone, muscle, tendon, and ligament diseases with emphasis on pathophysiology, diagnostics, and management options.

**7205 Advanced Veterinary Clinical Neurology (2) V** *Prereq.: DVM or equivalent degree or consent of instructor.* Diseases of the central and peripheral nervous system with emphasis on pathophysiology, diagnostics, neurosurgery, and other management options.

**7206 Advanced Veterinary Urogenital Disease (2) S** *Prereq.: DVM or equivalent degree or consent of instructor.* Urinary and reproductive tract diseases and related conditions with emphasis on pathophysiology, diagnostic, and management options.

**7208 Advanced Veterinary Cardiovascular Disease (2) V** *Prereq.: DVM or equivalent degree or consent of instructor.* Cardiovascu-

lar diseases and related conditions with emphasis on pathophysiology, diagnostic and management options.

**7209 Advanced Veterinary Respiratory Disease (2) V** *Prereq.: DVM or equivalent degree or consent of instructor.* Respiratory diseases and related conditions with emphasis on pathophysiology, diagnostic and management options.

**7210 Veterinary Scientific Journal Review (1)** *Prereq.: DVM or equivalent degree or consent of instructor.* May be taken for a max. of 6 sem. hrs. of credit. In depth critique of current veterinary journals with emphasis on appraising experimental design and analysis; and interpretation and application of results.

## Veterinary Medicine • VMED

**7001 Seminar: Veterinary Medical Sciences (1)** *May be taken for a max. of 8 hrs. of credit.* Reports and discussions on topics of current interest in various disciplines of veterinary medicine.

**7004 Introduction to Research (2) F** *Prereq.: consent of instructor.* Concepts and methodology in developing research programs; selection of a research problem; planning, execution, and publication of original research.

**8000 Thesis Research (1-12 per sem.)** "S"/"U" grading.

**8900 Pre-dissertation Research (1-9)** *May be taken for a max. of 9 sem. hrs. of credit.*

**9000 Dissertation Research (1-12 per sem.)** "S"/"U" grading.

# FACULTY

In the following list of Veterinary Medicine faculty, the names of full members of the Graduate Faculty are indicated by a single asterisk (\*); associate members are marked with two asterisks (\*\*); affiliate members are indicated by single daggers (†); and ex officio members are designated by double daggers (††).

(The date of initial employment is given in parentheses following each person's title.)

**Mark J. Acierno** • *Assistant Professor of Companion Animal Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist* (10-18-04) • BS, Skidmore College, 1986; MBA, Pace University, 1991; DVM, Mississippi State University, 2000; Diplomate, American College of Veterinary Internal Medicine (Internal Medicine).

**\*\*Linda B. Adams** • *Adjunct Assistant Professor of Veterinary Microbiology & Parasitology (Department of Pathobiological Sciences)* (7-1-94) • BS, LSU, 1981; PhD, LSU, 1987.

**F. Kareem Al-Bagdadi** • *Associate Professor of Veterinary Anatomy & Cell Biology (Department of Comparative Biomedical Sciences)* (9-15-75) • B.V.M.S, University of Baghdad (Iraq), 1961; MS, Royal College of Denmark (Denmark), 1964; MS, Iowa State University, 1972; PhD, University of Illinois, 1975.

**Grace F. Amborski** • *Professor Emerita (Department of Veterinary Microbiology and Parasitology); Professor Emerita (Department of Veterinary Science)* (2-1-74) • BS, University of Toledo, 1955; MS, The Ohio State University, 1957; PhD, The Ohio State University, 1961.

**Frank M. Andrews** • *Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist; Director, Equine Health Studies Program (Department of Veterinary Clinical Sciences)* (08-01-08) • BS, Washington State University, 1979; BS, DVM, MS, Washington State University, 1983;

Diplomate, American College of Veterinary Internal Medicine (Internal Medicine).

**Primo V. Arambulo** • *Adjunct Professor of Epidemiology & Community Health (Department of Pathobiological Sciences)* (1-1-95)

• DVM, University of the Philippines, 1963; CPH, University of the Philippines, 1964; DAP&E, Institute for Medical Research, (Malaysia), 1971; MPH, University of Texas, 1976; DrPH, University of Texas, 1977; MPA, Harvard University, 1989.

**\*David G. Baker** • *Professor of Laboratory Animal Medicine (Department of Pathobiological Sciences); Director, Division of Laboratory Animal Medicine* (8-1-95) • BS, University of California, Davis, 1980; MS, University of California, Davis, 1986; DVM, University of California, Davis, 1987; PhD, University of California, Davis, 1992; Diplomate, American College of Laboratory Animal Medicine.

**\*Steven A. Barker** • *Professor of Veterinary Physiology, Pharmacology & Toxicology (Department of Comparative Biomedical Sciences)* (1-7-85) • BS, University of Alabama, 1971; MS, University of Alabama, 1973; PhD, University of Alabama, 1978.

**Ota S. Barta** • *Adjunct Professor of Veterinary Immunology (Department of Pathobiological Sciences)* (7-1-00) • M.V.Dr., University of Agriculture (Czechoslovakia), 1955; C.S.C., University of Agriculture (Czechoslovakia), 1963; PhD, Ontario Veterinary College, University of Guelph (Canada), 1969; Diplomate, American College of Veterinary Microbiologists.

**\*\*Rudy W. Bauer** • *Associate Professor of Veterinary Pathology (Department of Pathobiological Sciences); Diagnostic Pathologist* (11-1-90) • BS, University of Georgia, 1979; DVM, University of Georgia, 1983; PhD, University of Georgia, 1990; Diplomate, American College of Veterinary Pathologists.

**\*Ralph E. Beadle** • *Professor Emeritus of Veterinary Clinical Sciences (Department of*

*Veterinary Clinical Sciences*) (7-1-74) • DVM, Colorado State University, 1967; PhD, University of Georgia, 1973.

**Lauren A. Beebe** • *Visiting Instructor of Veterinary Anesthesiology (Department of Veterinary Clinical Sciences)* (8-1-05) • BFA, Rhode Island School of Design, 1989; DVM, LSU, 2003.

**Patrick R. Bernard** • *Adjunct Assistant Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences)* (2-14-02) • DVM, Auburn University, 1969.

**Everett D. Besch** • *Professor Emeritus (Department of Veterinary Microbiology & Parasitology); Dean Emeritus, School of Veterinary Medicine* (4-15-68) • DVM, Texas A&M University, 1954; MPH, University of Minnesota, 1956; PhD, Oklahoma State University, 1963.

**W. Sheldon Bivin** • *Professor Emeritus of Laboratory Animal Medicine, (Department of Veterinary Pathology)* (7-1-73) • BS, Kansas State University, 1962; DVM, Kansas State University, 1964; PhD, University of Missouri, 1971; Diplomate, American College of Laboratory Animal Medicine.

**Rudolph P. Bohm, Jr.** • *Adjunct Associate Professor (Department of Pathobiological Sciences)* (1-1-04) • DVM, LSU, 1987; Diplomate, American College of Laboratory Animal Medicine.

**Peter J. Bostick** • *Adjunct Associate Professor of Molecular Oncology (Department of Pathobiological Sciences)* (7-1-00) • MD, University of California, Los Angeles, School of Medicine, 1988.

**Hermann H. Bragulla** • *Assistant Professor (Department of Comparative Biomedical Sciences)* (7-1-06) • DVM, University of Munich (Germany), 1984; PhD, University of Munich (Germany), 1986.

**Julia Buchholz** • *Visiting Professor of Veterinary Radiation Oncology (Department of Veterinary Clinical Sciences); Veterinary Radiation Oncologist* (3-28-08) • DrMedVet, Justus-Liebig-Universität Giessen, Germany, 2002; Diplomate, American College of Veterinary Radiology (Radiation Oncology).

**\*Daniel J. Burba** • *Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon* (8-1-90) • DVM, Auburn University, 1986; Diplomate, American College of Veterinary Surgeons.

**Dominic A. Cangelosi** • *Associate Director (Louisiana Animal Disease Diagnostic Laboratory); Diagnostician* (10-1-83) • BS, University of Southwestern Louisiana, 1961; DVM, Auburn University, 1967.

**James D. Carter** • *Professor Emeritus of Veterinary Ophthalmology (Department of Veterinary Clinical Sciences)* (12-1-73) • BS, University of Missouri, 1961; DVM, University of Missouri, 1961; MS, University of Missouri, 1966; Diplomate, American College of Veterinary Ophthalmologists.

**René T. Carter** • *Assistant Professor of Veterinary Ophthalmology (Department of Veterinary Clinical Sciences)* (7-1-06) • DVM, LSU, 2000; Diplomate, American College of Veterinary Ophthalmologists.

**W. James Catallo** • *Associate Professor of Environmental Toxicology (Department of Comparative Biomedical Sciences)* (2-15-94) • BS, Tulane University, 1981; PhD, College of William and Mary, 1989.

**Jennifer L. Chang** • *Visiting Clinical Instructor of Veterinary Emergency Medicine (Department of Veterinary Clinical Sciences)* (7-14-08) • BS, University of Oklahoma, 2002; DVM, Oklahoma State University, 2007.

**Anna M. Chapman** • *Visiting Assistant Professor of Equine Medicine (Department of Veterinary Clinical Sciences); Equine Internist* (7-1-06) • BA, Gettysburg College, 1990; DVM, LSU, 2001; MS, LSU, 2006; Diplomate, American College of Veterinary Internal Medicine (Internal Medicine).

**\*\*Henrique Cheng** • *Assistant Professor (Department of Comparative Biomedical Sciences)* (7-1-06) • DVM, Faculdade de Ciências Agrárias do Pará (Brazil), 1994; MS, Iowa State University, 1997; PhD, Iowa State University, 2002.

**\*Doo Youn Cho** • *Professor of Veterinary Pathology (Department of Pathobiological*

*Sciences*); *Section Chief (Necroscopy/Surgical Biopsy), Veterinary Teaching Hospital & Clinics* (12-15-76) • DVM, Seoul National University (Korea), 1966; MVSc, Seoul National University (Korea), 1970; MS, Kansas State University, 1973; PhD, Kansas State University, 1976.

**Vladimir M. Chouljenko** • *Assistant Professor (Research) (Department of Pathobiological Sciences); Assistant Director, Division of Biotechnology and Molecular Medicine* (7-1-01) • BS, Kiev State University, 1982; PhD, Institute for Molecular Biology and Genetics, Ukrainian Academy of Sciences, 1990.

**Shafiqul Chowdhury** • *Professor (Department of Pathobiological Sciences)* (7-1-08) • DVM, Bangladesh Agricultural University, 1978; MS Bangladesh Agricultural University, 1980; PhD, Free University of Berlin, 1987.

**\*Richard K. Cooper II** • *Professor of Veterinary Microbiology & Parasitology (Department of Pathobiological Sciences); Professor of Veterinary Science* (10-1-91) • BS, Mississippi College, 1985; MS, Mississippi College, 1988; PhD, University of Georgia, 1991.

**James R. Corley** • *Adjunct Assistant Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences)* (2-14-02) • DVM, LSU, 1980.

**Stephanie A. Cormier** • *Adjunct Assistant Professor (Department of Pathobiological Sciences)* (10/1/04) • BS, University of Southwestern Louisiana, 1991; PhD, Louisiana State University Medical Center, 1997.

**Hollis U. Cox** • *Professor of Veterinary Bacteriology (Department of Pathobiological Sciences); Veterinary Microbiologist* (4-1-75) • BS, Oklahoma State University, 1965; DVM, Oklahoma State University, 1967; PhD, LSU, 1973; Diplomate, American College of Veterinary Microbiologists; Specialist, American Academy of Microbiology; Specialist, American Society of Clinical Pathologists.

**Anderson F. da Cunha** • *Assistant Professor of Veterinary Anesthesiology (Department of Veterinary Clinical Sciences); Service Chief (Anesthesia Services), Veterinary Teaching Hospital & Clinics* (12-1-06)

• DVM, Federal University of Parana, 2000; MS, Federal University of Santa Maria, 2002.

**\*Jacqueline R. Davidson** • *Clinical Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon* (7-25-94) • BS, University of Minnesota, 1982; BS, University of Minnesota, 1984; DVM, University of Minnesota, 1986; MS, Purdue University, 1991; Diplomate, American College of Veterinary Surgeons.

**Don Davis** • *Adjunct Associate Professor of Veterinary Science; Adjunct Associate Professor (Department of Pathobiological Sciences)* (7-1-00) • PhD, Texas A&M University, 1979.

**James H. Diaz** • *Adjunct Professor (Department of Pathobiological Sciences)* (10-1-05) • BS, Tulane University, 1971; MD, Tulane University, 1975; MHA, Tulane University, 1990; PhD, Tulane University, 1995; MPH/M, Tulane University, 2001.

**Marilyn A. Dietrich** • *Instructor in Veterinary Microbiology & Parasitology (Department of Pathobiological Sciences)* (4-1-91) • BS, LSU, 1978; MS, LSU, 1980.

**Joe M. Dixon** • *Professor Emeritus (Department of Veterinary Science); Professor Emeritus (Department of Veterinary Clinical Medicine)* (10-1-77) • DVM, Oklahoma State University, 1952.

**A. Roland Dommert** • *Professor Emeritus (Department of Veterinary Microbiology and Parasitology)* (7-1-71) • BS, Texas A&M University, 1960; DVM, Texas A&M University, 1961; MS, LSU, 1963; PhD, LSU, 1966.

**Betsy Dresser** • *Adjunct Professor of Veterinary Physiology (Department of Veterinary Clinical Sciences)* (1-1-97) • BS, The Ohio State University, 1975; MS, The Ohio State University, 1977; PhD, The Ohio State University, 1979.

**Dennis W. Duffield** • *Associate Professor of Veterinary Anatomy & Cell Biology (Department of Comparative Biomedical Sciences)* (7-1-75) • BS, University of Illinois, 1961; DVM, University of Illinois, 1963; PhD, University of Missouri, Columbia, 1970.

**Alexander W. Dunlap** • *Adjunct Professor of Laboratory Animal Medicine (Department of Pathobiological Sciences)* (12-1-99) • DVM, LSU, 1989; MD, University of Tennessee, School of Medicine, 1996.

**\*Susan C. Eades** • *Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist* (2-15-98) • DVM, LSU, 1982; PhD, University of Georgia, 1988; Diplomate, American College of Veterinary Internal Medicine (Internal Medicine).

**\*\*Susan M. Eddlestone** • *Associate Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist* (09-16-02) • DVM, LSU, 1989; Diplomate, American College of Veterinary Internal Medicine (Internal Medicine).

**\*Bruce E. Eilts** • *Professor of Theriogenology (Department of Veterinary Clinical Sciences); Theriogenologist; Service Chief (Theriogenology), Veterinary Teaching Hospital & Clinics* (12-3-84) • BS, University of Minnesota, 1975; DVM, University of Minnesota, 1977; MS, University of Minnesota, 1982; Diplomate, American College of Theriogenologists.

**\*\*Philip H. Elzer** • *Professor of Veterinary Science; Professor of Microbiology & Parasitology (Department of Pathobiological Sciences)* (6-1-95) • BS, Rochester Institute of Technology, 1986; MS, Cornell University, 1989; PhD, Cornell University, 1992.

**\*Frederick M. Enright** • *Professor of Veterinary Medicine (Department of Pathobiological Sciences); Interim Director, Louisiana Animal Disease Diagnostic Laboratory; Head (Department of Veterinary Science)* (11-19-93) • DVM, Oklahoma State University, 1970; PhD, University of California, Davis, 1974.

**\*\*Dawn Evans** • *Clinical Associate Professor of Veterinary Pathology (Department of Pathobiological Sciences); Veterinary Pathologist; Diagnostic Pathologist (Louisiana Animal Disease Diagnostic Laboratory)* (1-3-90) • BS, University of West Indies, 1980; DVM, Tuskegee Institute, 1985; Diplomate, American College of Veterinary Pathologists.

**\*Ji-Ming Feng** • *Associate Professor*

*(Department of Comparative Biomedical Sciences)* (9-1-07) • BS, Lanzhou University (China), 1991; MS, Beijing Medical University (China), 1994; PhD, Beijing Medical University (China), 1998.

**\*\*Marxa L. Figueiredo** • *Assistant Professor (Department of Comparative Biomedical Sciences)* (4-15-08) • BS, Federal University of Goiás (Goiânia, Brazil), 1994; PhD, University of Wisconsin-Madison, 2002.

**\*Larry L. Findley** • *Adjunct Assistant Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences)* (1-24-02) • DVM, LSU, 1979.

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# VETERINARIAN'S OATH\*

Being admitted to the profession of veterinary medicine, I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health, the relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge. I will practice my profession conscientiously, with dignity, and in keeping with the principles of veterinary medical ethics. I accept as a lifelong obligation the continual improvement of my professional knowledge and competence.

\*Adopted by the AVMA House of Delegates, July 1969.



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