

# LSU

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## School of Veterinary Medicine

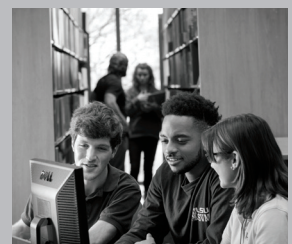


## 2023-2024 Bulletin for Classes 2024, 2025 & 2026

# ABOUT THE COVER



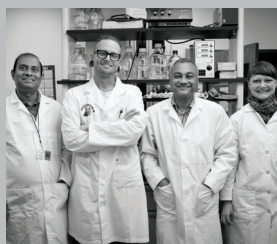
The LSU School of Veterinary Medicine building construction was completed in 1978. In 2021, construction began on the Stephenson Pet Clinic, which opened in the summer of 2022. The SPC serves as the main entrance for our Veterinary Teaching Hospital and houses LSU Vet Med's outpatient services: community practice (primary care), ophthalmology, dermatology, small animal theriogenology (reproduction), and integrative medicine. The second floor includes a large clinical skills laboratory, study areas, faculty and staff offices, and a garden terrace.



We Teach



We Heal



We Discover



We Protect



# SCHOOL OF VETERINARY MEDICINE BULLETIN

**2023-2024 Issue • August 2023**

The LSU catalog and bulletin series (ISSN 0744-4613, 359-070) is published by Louisiana State University and Agricultural & Mechanical College four times a year: once in April, once in June, once in July, and once in August. Periodicals postage paid at Baton Rouge 70803. Copies of this bulletin may be obtained online and from—and change of address, undeliverable copies, and other mail sent to—School of Veterinary Medicine, LSU, Baton Rouge, Louisiana 70803.

## Statement of Accreditation

Louisiana State University and A&M College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's, educational specialist, and doctoral degrees. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Louisiana State University and A&M College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website ([www.sacscoc.org](http://www.sacscoc.org)).

The AVMA Council on Education (COE) is the national accrediting agency for veterinary medical education in the United States. The AVMA COE assures that minimum standards in veterinary medical education are met by all AVMA-accredited colleges or schools of veterinary medicine, and that students enrolled in those colleges or schools receive an education that will prepare them for entry-level positions in the profession. The LSU program has met all essential requirements for an acceptable college or school as established by the AVMA COE. Accreditation was granted in 1977 and reaffirmed in 1984, 1991, 1998, 2005, 2010, 2013, and 2020.

## Our Vision

Bettering lives through education, public service, and discovery

## Our Mission

Improving and protecting the lives of animals and people through superior education, transformational research, and compassionate care

## Our Values

Integrity. Compassion. Innovation.

Effective date of this bulletin • Fall 2023

LSU IS AN EQUAL OPPORTUNITY/ACCESS UNIVERSITY

PRODUCED BY THE LSU SCHOOL OF VETERINARY MEDICINE



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.

LSU assures equal opportunity for all qualified persons without regard to sex, gender, gender identity, gender expression, sexual orientation, race, ethnicity, national origin, belief system, age, education, and (dis)ability, marital status, or veteran's status in the admission to, participation in, and treatment or employment in the programs and activities the University operates. Anyone having questions or complaints regarding equal opportunity at LSU should contact the Office of Equal Opportunity Programs, 304 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803; 225-578-8200. Persons believing they have been discriminated against contrary to federal law are entitled to make an inquiry or file a complaint with the U.S. Equal Employment Opportunity Commission, 701 Loyola Ave., Suite 600, New Orleans, Louisiana 70113; or the U.S. Department of Education, Office of Civil Rights, 1200 Main Tower Building, Dallas, Texas 75202.

## 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 contact specific offices directly. Several offices are listed below for your convenience:

Veterinary Teaching Hospital

Large Animals • 225-578-9500

Small Animals • 225-578-9600

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

[svmstudentaffair@lsu.edu](mailto:svmstudentaffair@lsu.edu)

[svmadmissions@lsu.edu](mailto:svmadmissions@lsu.edu)

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

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





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# ACADEMIC CALENDARS

## **DVM ACADEMIC CALENDAR**

[Click here for the 2023-2024 DVM Student Academic Calendar](#)

## **GRADUATE STUDENT CALENDAR**

[Click here for the 2023-2024 Graduate Student Academic Calendar](#)

*All dates are subject to change.*



# LOUISIANA STATE UNIVERSITY

LSU 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. Enriched by Louisiana’s natural and cultural distinctiveness, the community of learning at Louisiana’s national flagship university prepares students to meet the environmental, social, economic, scientific, creative, and educational challenges that confront us locally and globally in the 21st century. *LSU Flagship 2025: Leading Louisiana, Impacting the World* underscores the university’s commitment to excellence at every level and focuses on the goals of learning, discovery, diversity, and engagement.

LSU is designated as a land-, sea-, and space-grant institution. In addition, the Carnegie Foundation has designated LSU as a Very High Research Activity institution, reflective of the university’s dedication to research.

The State of Louisiana Board of Regents, in its Master Plan for Higher Education, designated LSU as Louisiana’s single “comprehensive university.”

LSU students have the opportunity to experience a rich diversity of courses, curricula, students, faculty, and settings that stimulate and challenge individual growth. As the state’s comprehensive university, LSU offers numerous choices for intellectual development, career options, and cultural exposure. The undergraduate classroom is enhanced through LSU’s research status, ensuring that students are aware of the most recent discoveries and are taught innovative modes of inquiry.

The university has no more important mission than to provide its students with outstanding learning opportunities. LSU offers programs of study that are both rigorous and exciting. These

programs attract bright, energetic students who wish to prepare for the career challenges of the 21st century.

LSU’s instructional programs include 225 undergraduate degrees, graduate/professional degrees, and graduate certificates.

The university attracts about 17 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 35,000 students from 50 states and over 100 foreign countries. Although the average age of undergraduates is 21, many older students also pursue degrees at LSU. The student body is 56 percent women and 44 percent men.

Since its first commencement in 1869, LSU has awarded more than 298,000 degrees. The university produces about 24 percent of Louisiana’s baccalaureate graduates, approximately 17 percent of the master’s graduates, about 53 percent of the doctoral graduates, and around 25 percent of the professional graduates. In 2020-2021, LSU awarded 6,871 degrees.

The university is a member of the American Council on Education, an organization of accredited post-secondary educational institutions founded in 1918; the Association of Public 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.

The university is composed of eight institutions on seven campuses in five cities. It was established by an act of the Louisiana Legislature on February 6, 1965 and includes LSU A&M; LSU Agricultural Center; LSU Health Sciences Center New Orleans; LSU Health Sciences Center Shreveport; LSU Alexandria; LSU Eunice; LSU Shreveport; and Pennington

Biomedical Research Center. Included in the collective system of campuses and facilities is also the Health Care Services Division.

Per the Louisiana State Constitution, Article VIII, §7, the governing body of the university, the Board of Supervisors of Louisiana State University and Agricultural & Mechanical College, is composed of 15 members appointed by the governor to staggered, six-year terms and one student member elected to a one-year term by fellow university student government leaders. Principle administrative officers of the University are the President, Executive Vice President and Provost, Executive Vice President for Finance & Administration/CFO, Vice President for Research & Economic Development, Vice President for Strategic Initiatives, Vice President for Student Affairs, Vice President for Enrollment Management, Vice President for Agriculture, the Vice President for Strategic Communications, Vice President of Legal Affairs and General Counsel, and the Director of Athletics.

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 university in 1977. In 1979, it was renamed in honor of Paul M. Hebert, who served as dean from 1937 to 1977. In 2015, the Law Center realigned with LSU A&M.

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.

## Vision and Mission

### *Vision*

As Louisiana’s flagship university, LSU will deploy the knowledge generated through the work of our faculty, staff, and students to build a more healthy, prosperous, and secure future for the state.

### *Mission*

Designated as a Land, Sea, and Space Grant institution, LSU secures, elevates, and advances Louisiana and the world through the generation, preservation, dissemination, and application of knowledge and cultivation of the arts and develops students who are prepared, confident, and inspired to achieve lifelong success.

*Approved by LSU Board of Supervisors on February 10, 2023.*







# 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.

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 (Comparative Biomedical Sciences, Pathobiological Sciences, and Veterinary Clinical Sciences), the Veterinary Medicine Library, the Veterinary Teaching Hospital, and the Louisiana Animal Disease Diagnostic Laboratory. The facilities at the Veterinary Teaching Hospital 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 AVMA Council on Education (COE) is the national accrediting agency for veterinary medical education in the United States. The AVMA COE assures that minimum standards in veterinary medical education are met by all AVMA-accredited colleges or schools of veterinary medicine, and that students enrolled in those colleges or schools receive an education that will prepare them for entry-level positions in the profession. The LSU program has met all essential requirements for an acceptable college or school as established by

the AVMA COE. Full accreditation was granted in 1977 and reaffirmed in 1984, 1991, 1998, 2005 and 2010, 2013, and 2020.

## Advanced Degrees

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

## Departments

### Comparative Biomedical Sciences

The Department of Comparative Biomedical Sciences is responsible for instruction in a major portion of the professional curriculum in Year I: namely, anatomy (cell biology, microscopic anatomy, and developmental morphology) and physiology. Gross anatomy and histology each have laboratory sessions that correlate with lecture presentations. 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 an inhalation research facility and shared molecular and cellular biology instrumentation. 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 and the Louisiana Animal Disease Diagnostic Laboratory.

Graduate programs in the department lead to the MS and PhD degrees in Biomedical and 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, 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 postmortem examination, diagnostic parasitology, and aquatic animal disease diagnosis. Central research services include a molecular biology center, Gene Lab, a flow cytometry lab, and a histology lab.

### **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 and II. 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 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. 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 one of the major health science libraries in the greater Baton Rouge area and serves the faculty, staff and students of the School of Veterinary Medicine as well as the LSU and Baton Rouge communities. The Library was renovated in 2018 with an open floor plan of modern collaborative learning spaces, modular and ergonomic furniture, and new conference rooms with 24/7 access for students and faculty. The Library is a member of the National Network of Libraries of Medicine South Central Region and of the Animal and Veterinary Information Specialist Caucus of the Medical Libraries Association. The Library is a significant partner in supporting 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 as well as selected materials on human medicine, comparative medicine, public health, the animal sciences and other related areas. Patrons have access to not only those resources unique to the LSU Vet Med Library, but also the resources provided by the main campus libraries. 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 LSU Vet Med Library is consistently moving forward in its partnership with the veterinary medicine community and looks forward to working with you.

### **Veterinary Teaching Hospital**

LSU's Veterinary Teaching Hospital offers outstanding clinical service with over 40 board-certified specialists on staff. Our veterinary hospital also provides a clinical education for veterinary students, interns and residents; over 70 percent of the veterinarians in Louisiana were trained in our hospital. The VTH has a large case load (approximately 23,000 per year) and is open 24 hours/day, 365 days/year. A new

community practice expansion was opened in 2016 with a modern open floor plan and fully equipped, modern dental suite, including dental radiography. The new outpatient Stephenson Pet Clinic opened in the summer of 2022.

The Stephenson Pet Clinic houses outpatient services including community practice (primary care), dermatology, ophthalmology, integrative medicine and rehabilitation, and canine theriogenology. The second floor houses a new clinical skills lab including mock exam rooms for communication training.

## **Inclusive Excellence (Diversity, Equity, Inclusion, and Belonging)**

### **Commitment to Diversity**

LSU Vet Med is committed to diversity and inclusion for all members of the LSU Vet Med community. LSU Vet Med recognizes that teams function better when there is diversity in ideas and experiences. Inclusion refers to the policies, practices, and culture that are in place to ensure that all individuals feel welcome.

### **Diversity Statement**

The Louisiana State University School of Veterinary Medicine celebrates and embraces differences in each individual and strives to create an environment that promotes cultural inclusion, mutual respect, and trust among members of the community of students, faculty, and staff. LSU Vet Med rejects any form of discrimination, prejudice, or bias, including, but not limited to, discrimination based on sex, gender, gender identity, gender expression, sexual orientation, race, ethnicity, national origin, belief system, age, education, and (dis)ability.

### **Diversity Committee**

The LSU Vet Med Diversity Committee was formed in 2014. The committee's mission is to help foster a culturally inclusive and responsive environment through building allies and increasing awareness of cross-culturalism throughout the school. The committee is comprised of faculty, staff, and students from the VOICE student group.

### **Contact**

Contact the LSU Vet Med Office of Inclusive Excellence at [vetmedoie@lsu.edu](mailto:vetmedoie@lsu.edu) or 225-578-9867.

## **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.

## **Student and Faculty Code of Ethics**

### **I. Preamble**

The cultivation of ethical standards is of primary importance in upholding the honor and integrity of the veterinary profession. We are expected by society to regulate ourselves as veterinary professionals and scientists, to hold our peers to the highest ethical standards, and to protect the health of animals and people. I will maintain a high degree of honesty, integrity, and discretion. I will strive to maintain standards of personal discipline that are in harmony with my educational goals; to observe national, state, and local laws as well as school and University regulations; and respect the rights,

privileges, and property of others. I will abide by the code of Ethics and Honor and avail myself of the inspiration offered by this code. I pledge to create an environment that honors and respects diversity, free from racism and discrimination, and reject all forms of prejudice and discrimination based on race, ethnicity, gender, disability, sexual orientation, gender identity, religious beliefs, political beliefs, geographic, socioeconomic, and educational background or any other differences that have led to misunderstanding, hostility and injustice. I will help create an atmosphere conducive to education by promoting mutual respect and trust among members of the community of students and faculty of the Louisiana State University School of Veterinary Medicine.

## II. Guidelines

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.

- 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 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.

The LSU Student Code of Conduct is online at [www.lsu.edu/saa/students/codeofconduct.php](http://www.lsu.edu/saa/students/codeofconduct.php).

## III. Responsibility and Accountability

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.

Every member of the School of Veterinary Medicine community is accountable to each other for our behaviors. It is important to recognize how ours' and others' behaviors impacts LSU Vet Med as a whole. If concerns arise about inappropriate behavior it should be addressed by talking to the individuals involved and/or reporting to the faculty in the course, the year coordinator, the counselor, the Senior Associate Dean for Student Success, and/or the Care team reporting system. There are two reporting systems that can be utilized. LSU Vet Med Cares is located within the LSU Vet Med intranet and LSU Cares at [www.lsu.edu/saa/lsu-cares/index.php](http://www.lsu.edu/saa/lsu-cares/index.php).

## Resources for Student Conduct, Organizations, and Clubs

LSU Cares, Office of Student Advocacy and Accountability is online at [www.lsu.edu/saa/lsu-cares](http://www.lsu.edu/saa/lsu-cares).

Student Organization Guidelines are online at [www.lsu.edu/saa/students/organizations.php](http://www.lsu.edu/saa/students/organizations.php).

Student Organization Handbook is online at [www.lsu.edu/campuslife/involvement/student\\_org\\_handbook.php](http://www.lsu.edu/campuslife/involvement/student_org_handbook.php)

## Commitment to Community

The LSU Commitment to Community provides a guiding ethos to the University community. Students are encouraged to exemplify the Commitment to Community in their daily lives.

Louisiana State University is an interactive community in which Students, faculty, and staff together strive to pursue truth, advance learning, and uphold the highest standards of performance in an academic and social environment.

It is a community that fosters individual development and the creation of bonds that transcend the time spent within its gates.

To demonstrate my pride in LSU, as a member of its community, I will:

- accept responsibility for my actions;
- hold myself and others to the highest standards of academic, personal, and social integrity;
- practice justice, equality, and compassion in human relations;
- respect the dignity of all persons and accept individual differences;
- respect the environment and the rights and property of others and the University;
- contribute positively to the life of the campus and surrounding community; and
- use my LSU experience to be an active citizen in an international and interdependent world.

The continued success of LSU depends on the faithful commitment by each community member to these, our basic principles. (Adopted May 1995)

## Professional Attire at the LSU School of Veterinary Medicine

- Students are expected to maintain a clean and professional appearance at all times
- We want students to be comfortable sitting in classrooms. Appropriate attire should be worn at all times. When in doubt: scrubs are appropriate attire for the classroom setting.
- Do not wear clothes with inappropriate pictures or language on them.
- Shoes: no flip flops

- Course instructors will determine appropriate footwear for labs during Years I, II, and III
- You are a professional student and should, therefore, present yourself well. For all non-course field trips (clinical courses) or events, either at the school or where you are traveling to represent the LSU School of Veterinary Medicine, students are required to wear business casual clothing. Remember: these are events where you will be meeting the public.
- During the clinic year, Phase 2 students are expected to wear professional business casual attire or attire as designated by the individual service. Certain rotations will have specific requirements and will provide you with that information in their orientation materials
- Students should wear closed toe shoes should worn anytime they are in the hospital facility.
- Students not dressed according to this policy will be sent home to change their clothes.

## Policy and Procedures for Service Animals

### A. Audience

This policy applies to all School of Veterinary Medicine personnel (including faculty, house officers, staff, students, clients and visitors) while in the LSU Vet Med building and the Veterinary Teaching Hospital (VTH).

### B. Purpose

This document outlines the policy and procedures for the presence of service animals within the LSU Vet Med building and VTH.

### C. Definitions

1. Service animal – any dog (or miniature horse) that is individually trained to do work or perform tasks for the benefit of an individual with a disability, and the work or task that the animal has been trained to provide must be directly related to the persons disability. Animals in the process of being trained as a service animal while not legally considered service animals will also fall under this policy with appropriate documentation and permission.

2. Work or tasks - The work or tasks performed by a service animal must be directly related to the individual's disability. Examples of work or tasks include, but are not limited to: assisting individuals who are blind or have a low vision with navigation and other tasks; alerting individuals who are deaf or hard-of-hearing to the presence of people or sounds; providing non-violent protection or rescue work; pulling a wheelchair; assisting an individual during a seizure; alerting individuals to the presence of allergens; retrieving items such as medicine or the telephone; providing physical support and assistance with balance and stability to individuals with mobility disabilities; and helping persons with psychiatric and neurological disabilities by interrupting impulsive or destructive behaviors.

3. Companion animal – Any animal providing emotional support, well-being, comfort, or companionship which does not constitute work or a task is not classified as a service animal unless it is individually trained to do something that qualifies it as a service animal. Personal pets should not be in the building with the exception of within the hospital for scheduled appointments.

#### D. Policy

1. It is the policy of LSU Vet Med that no individual shall be discriminated against on the basis of disability in the full and equal enjoyment of LSU Vet Med services, facilities and accommodations. Accordingly, any individual with a disability (including, but not limited to, employees, students, clients and visitors) shall have the right to be accompanied by a service animal in the LSU Vet Med building and VTH (except as otherwise provided in this policy). For students and visitors, the following are not considered service animals and are therefore not permitted: 1) non-dog animals (exception: miniature horses); 2) animals that solely serve to deter crime; 3) emotional support, comfort, and companion animals.

2. Permitted inquiries: For students and visitors, if it is not readily apparent that an animal is a service animal (i.e. dog is observed guiding an individual who

is blind or has low vision, wears a vest designating it as a service dog), LSU Vet Med affiliates, including faculty, house officers, staff or students may make the following two inquiries: (1) if the animal is a service animal (2) what work or task the animal has been trained to perform for the individual's benefit. However, LSU Vet Med employees may not ask about the nature or extent of an individual's disability and may not request medical documentation of the disability. LSU Vet Med affiliates may not require the individual to provide documentation that the animal is a "certified," "trained," or an "approved" service animal, nor must they accept as such proffered documentation as proof that the animal is a service animal. For employees, including student employees, the University may require documentation explaining why the employee requires an assistive animal in the workplace. All such inquiries must be handled through LSU Disability Services and Human Resource Management, as they may involve personal and protected health information.

3. A service animal must be vaccinated and current on core and respiratory vaccines unless exempted by the veterinarian. A service animal must be under the control of the individual at all times and may be excluded altogether from the LSU Vet Med building and VTH if the handler does not take effective action to control it, or it is not housebroken. A service animal must have a harness, leash, or other tether, unless the handler is unable to use because of a disability; or if such use would interfere with the service animal's safe, effective performance of work or tasks. In such cases, the service animal still must be under the handler's control (e.g., voice control, signals, or other effective means). LSU Vet Med personnel and students are strongly encouraged to identify their service animal using a vest or other effective means. This serves to help differentiate a service dog from a client owned dog.

4. LSU Vet Med is not required to permit use of a service animal that presents a "direct threat to the health or safety of other people and animals (USD HHS, Understanding How to Accommodate Service Animals in Health Care Facilities)."

In determining whether there is a direct threat to the health or safety of other people and animals, faculty members must make an individualized assessment, based on reasonable judgment that relies on current medical knowledge or on the best available objective evidence, to ascertain the nature, duration, and severity of the risk, and the probability that the potential injury will actually occur. The faculty must consider the particular animal's actual behavior or history, not fears or generalizations about how an animal or breed might behave. Any restriction of the use of a service animal must be documented and approved by the Dean or Associate Dean for Clinical Programs. Allergies and fear of dogs are not valid reasons for denying access or refusing service to people using service animals. [www.ada.gov/service\\_animals\\_2010.htm](http://www.ada.gov/service_animals_2010.htm).

5. Under the ADA, generally service animals to accompany people with disabilities are permitted in all area of the facility where the public is normally allowed to go. However, it may be appropriate to exclude a service animal from operating rooms or other locations where the animal's presence may compromise a sterile environment.

A service animal may be excluded if its presence would fundamentally alter the nature of academic requirements, LSU Vet Med goods, services, facilities, privileges, advantages and accommodations. In this case, the Dean or Associate Dean for Clinical Programs will consult with LSU's legal counsel in making such a determination.

6. Service animals are permitted in all LSU Vet Med areas (e.g. academic buildings, classrooms, laboratories, libraries) unless there is a direct threat to the health and safety of other people or animals. If an individual requests that a service animal be removed due to a medical condition that is affected by a service animal (i.e. respiratory disease, asthma, or severe allergies), LSU Vet Med will perform an individualized assessment of the situation and consider the needs of all parties in meeting its obligation to provide reasonable accommodations. The individual asking for the service animal to be removed due to a

medical condition may be asked to provide medical documentation.

7. A service animal may go anywhere within the VTH that the general public are permitted to go, but it is generally appropriate to exclude a service animal from limited-access areas that employ general infection-control measures or require a protected environment, such as examination rooms, wards, animal barns, imaging areas, the ICU, operating rooms and other locations where patient care occurs. If the service animal is excluded from a limited-access area, it is the responsibility of the service dog partner to find a safe location or temporary caregiver for the animal. Exceptions to these exclusions may be approved by the Dean or Associate Dean for Clinical Programs on a case-by-case basis. Clients that require a service animal, that is not a patient of the VTH, are permitted to bring their service animal into examination rooms.

#### E. Further Information

1. For more information about service animals on campus, please see

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

2. All permissions, inquiries, questions or complaints regarding service animals may be directed to the Dean, Associate Dean for Clinical Programs, or the LSU ADA Director.

## 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.

All reports of potential academic dishonesty are handled directly by the LSU Student Advocacy and Accountability Office. Forms can be found at the following link: [www.lsu.edu/saa/lsu-cares/index.php](http://www.lsu.edu/saa/lsu-cares/index.php)

The Office of Admissions and Student Success can help guide you through the reporting process.

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. Readmission must be approved by the dean of the School of Veterinary Medicine. Readmission is not guaranteed.

LSU Policy PS-22 provides rules and regulations for class absences, including exams. Below is the LSU Vet Med Examination Attendance Policy that was adopted by the faculty in Summer 2022.

## LSU Vet Med Examination Attendance Policy

LSU Vet Med recognizes that situations arise preventing a student from completing an exam at the scheduled time. Excused absences will be permitted for only certain circumstances. These scenarios are described below and are in accordance with LSU PS-22: [www.lsu.edu/policies/ps/ps\\_22.pdf](http://www.lsu.edu/policies/ps/ps_22.pdf)

### 1. Approved Examination Absences

Examination absences will be permitted for the following reasons:

**Illness:** The student should TEAMS message both the year coordinator and the course coordinator as soon as possible if they anticipate missing an examination because of illness (physical or mental). In situations of acute illness, the student should remain at home or seek medical care, even if the absence has not been approved before the examination begins. The honor system is applied, and requests will be approved if the student attests that they are experiencing illness. Documentation may be required at the discretion of the Associate Dean for Student Success and/or Course Coordinator, particularly if repeated absences occur.

**Compassionate leave:** Students experiencing a death in the family, funeral, serious emergencies involving members of a student's household or immediate family, or other personal crisis, including death of a personal pet will be granted compassionate leave from all classes and examinations after contacting the Associate Dean for Student Success or one of the counselors. The student may also contact the Course Coordinator. Documentation may be required at the discretion of the Associate Dean for Student Success or Course Coordinator.

**Conferences (participating):** Students are encouraged to attend conferences or other continuing education events. However, absences from examinations are ONLY permitted if the student is:

- a) presenting a scientific abstract as a poster or podium presentation or
- b) receiving a competitive scholarship from a national or state organization to attend the meeting or
- c) the student is representing LSU as part of a national leadership position (not a school level position).

Students should contact the Year Coordinator and the Course Coordinator as soon as possible.

**Military obligations or court-imposed legal obligations such as subpoenas or jury duty:** Students should submit documentation of their legal reason to miss the exam to the Course Coordinator and the Year Coordinator.

**Religious observances:** Examination absences are permitted for religious holidays. See the interfaith calendar website ([www.interfaith-calendar.org](http://www.interfaith-calendar.org)).

**Pets:** Students may request an examination absence if a pet requires emergency medical care, but requests will only be approved for emergency situations when all other reasonable options have been exhausted. Absences will not be approved for scheduled appointments. Students should contact via TEAMS the Course Coordinator and the Year Coordinator to request an absence as soon as possible.

**Transportation issues:** In the event of a car accident, students should seek medical care and contact the school when the situation has stabilized. If other transportation issues such as mechanical problems with a car or canceled trains/flights are encountered, students should message the year coordinator and course coordinator via TEAMS as soon as possible. Absences will only be approved if there are no other options available. See LSU Vet Med Bulletin regarding travel expectations during the semester dates.

All other requests that do not fall into one of the above categories are unexcused. This includes participation in conferences, weddings, and other social events.



One-time Exception ('Free Pass'): Students are permitted ONE exception to the above policy for attending conferences, student associations, and weddings or other important family events ONCE during Phase 1. Students must still request the absence by following the procedure described below and take the make-up examination after the scheduled date, in consultation with the Office of Admissions and Student Success. No exams will be allowed to be taken early. If a student is using their 'one free pass', the student must be prepared to take the make-up exam within 48 hours of returning from the event. If a student is using their one free pass, the Course Coordinator and the Year Coordinator must be notified 48 hours prior to the event or the absence will be considered unexcused.

## 2. Procedure to Request Absence:

1) If the student has extenuating circumstances that meet the criteria outlined above preventing them from taking an exam at the scheduled time, they should contact both the Year Coordinator and Course Coordinator via TEAMS as soon as possible. Please note that faculty and staff are not required or obligated to respond after hours or on weekends.

b) Except for acute illness and compassionate leave, the student must receive written permission from both the Year Coordinator and the Course Coordinator before they are absent from an examination.

c) With the exception of acute illness and compassionate leave, written requests must be submitted at least 48 hours in advance of the intended absence. In alignment with LSU policies, a maximum of 3 days will be granted for compassionate leave. Individual requests for extended time will be considered at the discretion of the Course Coordinator, the counselor, and the Associate Dean for Student Success.

d) In the event of a personal crisis, (e.g., death in the family), a member from the Office of Admissions and Student Success will inform the course coordinator ahead of the examination that compassionate leave has been granted on behalf of the student.

i. Once permission has been granted, the student will coordinate with the Course Coordinator and Year Coordinator to

reschedule the examination. Students with accommodations will still receive their allocated amount of time to complete examinations. Once an exam has been rescheduled, it cannot be rescheduled again unless a situation arises that meets the requirements for an excused absence.

e) The Office of Admissions and Student Success will keep a record of students who have used their "one free pass". Course Coordinators should check with the Year Coordinator to ensure that a student has not used their "one free pass" prior to approving a student's unexcused absence.

## Licensure Requirements

To obtain a license to practice veterinary medicine in a state in the United States one must first take the North American Veterinary Licensing Examination (NAVLE). The NAVLE is offered twice a year and can be taken at earliest in November prior to graduation. To apply for the NAVLE one must apply to take the test online before August 1 of the year of testing and also apply through a State Board of Veterinary Medicine. In Louisiana the application must be done through the Louisiana Board of Veterinary Medicine ([www.lsbvm.org](http://www.lsbvm.org)). Additional requirements for licensure in Louisiana include graduation from an accredited School of Veterinary Medicine, passing both the NAVLE and the Louisiana State Board Examination, having at least 3 letters of recommendation, and paying all associated fees. One cannot practice veterinary medicine until licensure is granted. One should inquire into the policies of other states in which one may intend to practice through the board of veterinary medicine in that state.

State board information can be found through the AAVSB at [aavsb.org](http://aavsb.org)



# 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.

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. If you have questions or concerns if a particular course will be a pre-requisite requirement, please email us at [svmadmissions@lsu.edu](mailto:svmadmissions@lsu.edu)

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 or research experience.

Credit earned through advanced placement 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. Granting of credit for CLEP subject examinations may be considered for 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. 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 43 semester credit hours of the courses listed below. More specific details regarding course descriptions can be found at the School of Veterinary Medicine Admissions web site at

[www.lsu.edu/vetmed/dvm\\_admissions](http://www.lsu.edu/vetmed/dvm_admissions). If there are any questions regarding equivalency of courses, please contact the School of Veterinary Medicine Office of Admissions and Student Success (email: [svmadmissions@lsu.edu](mailto:svmadmissions@lsu.edu); Phone: 225-578-9537).

- 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.
- English, 6 sem. hrs. – The emphasis of these courses should be written communication. LSU courses – English 1001, English 2000.

Elective Courses, min. 23 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. Other applicants may find it advantageous to complete the pre-veterinary requirements over a longer period of time.
- 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 that 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 (for example, if applying for matriculation into the fall 2023 semester, all prerequisites must be successfully completed by the end of the spring 2023 semester). If pre-requisites are still outstanding or if a grade of a C- or below earned in a pre-requisite course, the offer of admissions will be rescinded.

- 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 ([www.lsu.edu/catalogs](http://www.lsu.edu/catalogs)). If there is a question as to the course equivalence of a course taken, please email [svmadmissions@lsu.edu](mailto:svmadmissions@lsu.edu).
- At least one course each 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 2021 matriculation, all science courses should be completed no further back than the Fall 2013 semester.)
- Prerequisites taken longer than 10 years ago may typically not be accepted. Written appeals regarding this 10-year policy can be sent to the Office of Admissions and Student Success at [svmadmissions@lsu.edu](mailto:svmadmissions@lsu.edu). Appeals for this policy are evaluated on a case-by-case basis and are only granted for limited circumstances.
- 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 all grades and credit hours for the repeated course will be used when computing grade point averages.
- Credit earned through 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. 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. A Bachelor's degree (or any advanced degree) will not be substituted for prerequisite coursework.

## 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 for 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 may be chosen to be interviewed by members of the Faculty Admissions Committee 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 the Scholastic Standards Committee are 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. **Please go to [www.lsu.edu/vetmed/dvm\\_admissions](http://www.lsu.edu/vetmed/dvm_admissions) for more details on the application process.**

Academic and non-academic qualifications are considered in the selection process. Selection for admission is based on the sum of the objective and holistic 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 50 percent of the final calculation is determined by the GPA in all required courses (25 points) and the GPA in the last 45-60 hours (25 points).
- A holistic/subjective score comprises 50 percent of the final calculation and is determined by a review of the applicant's essays, letters of recommendation, experience and other materials submitted during the application process (25 points), an interview (if the Faculty Admissions Committee chooses to conduct an interview) (15 points), and a holistic assessment by the admissions committee (10 points).

The objective evaluation is based on scholastic achievement. 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 and the grade-point average on the most recent 45-60 semester hours of course work. New knowledge, especially in the sciences, is accruing at a rapid rate, so if you have completed our 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.

The holistic 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 parties. The first group of veterinarians/faculty members reviews the supporting documents (essays, letters of recommendation, transcripts, work experience, and familiarity with animals). The second group of veterinarians/faculty members evaluates the individual through a personal interview. These appraisals result in an average holistic

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 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 include undergraduate experience, 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.lsu.edu/vetmed/dvm\\_admissions](http://www.lsu.edu/vetmed/dvm_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, withdrawal, or dismissal.

1. You may be placed on academic probation at the end of the semester if:

- a. 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;
- b. if any required course is being remediated and reassessed;
- c. if you have been re-admitted to the academic program after being dismissed;

d. in Phase 1, you earn any grade of an “F” in an elective course (see “Policy Concerning Failure and Remediation of Elective Courses in Phase 1 of the VMED Curriculum,” below;

e. in Phase 2, you earn any grade of a “D+ or below” that has been remediated up from an “F” (see “Policy Concerning Failing Grades and Remediation in Phase 2,” below.

2. You may not advance to the next semester if you have earned a final grade of an “F” in a required course in the semester.

3. You may not advance to Phase 2 of the professional curriculum if you have received a final grade of an “F” in a required Phase 1 course.

4. You shall not have your degree conferred from the professional curriculum until you have received a passing grade for all required courses and have met all other requirements of the degree.

5. You may be dismissed from the school if:

a. You receive a final grade of an “F” in any required course in the curriculum;

b. You fail to achieve a GPA of 2.00 in all required courses taken during each academic year, i.e., Year 1, Year 2, Year 3 (fifth semester and spring courses taken prior to entering Phase 2), and Year 4 (Phase 2);

c. You receive a grade of a “D+” or below on greater than 6.5 credit hours in any semester;

d. While on probation, your GPA falls below 2.00 for any semester;

e. You receive a grade of a “D+” or below on greater than 10.5 credit hours in an academic year;

f. You receive a grade of a “D+” or below on greater than 15 credit hours cumulatively;

g. Following due process in accordance with University Policy and Procedures, you are denied permission to proceed in the curriculum for any other reason.

6. If you become subject to the provisions of any of the above scholastic regulations, you shall be subject to such requirements the Dean may determine appropriate based on recommendations of the Admission Committee and/or the Committee on Scholastic Standards.

## Withdrawal

1. If you voluntarily withdraw from the school or you are dismissed from the school for just cause, you forfeit your position and standing in the class. Readmission to the school may be granted only after approval by the Dean based on recommendations of the Admissions Committee.
2. 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 the following academic year contingent upon your providing the appropriate professional certification of treatment and/or management. Any further delays would be at the discretion of the Admissions Committee. All classes completed up to the time of withdrawal will be included in and count toward your record, GPA, and scholastic standards evaluation.
3. 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.

4. To voluntarily withdraw from the school for any reason, you must meet with the Senior Associate Dean for Student Success and/or the counselor. You must also write a statement of intent to withdraw which explains your reason for withdrawal and if you plan to request readmission. Readmission may be granted at the discretion of the Admissions Committee. Once you submit your letter of withdrawal, the Senior Associate Dean for Student Success and/or counselor will alert the Registrar, Admissions, and the Financial Aid Office. Please see Refund of Fees section.

## Remediation Policies

All Phase I and Phase II courses other than VMED 5010 courses are required to have a

Remediation with Reassessment Plan in the course syllabus that will guide course committee decisions related to remediation.

Students receiving a final grade of D+ or below in a Phase I or Phase II course other than VMED 5010 will have the option to remediate the course material and undergo reassessment as outlined in the course syllabus but may use this option only once during the course of the professional curriculum. Additional requests for

remediation will be considered by the Scholastic Standards Committee only when extenuating circumstances apply and are not guaranteed to be approved.

To request remediation with reassessment, a student must submit their request in writing to the course coordinator and the Office of Admissions and Student Success. Students are encouraged to request remediation as soon as the course is finished but must make the request no later than three days after the deadline for final grade posting at the end of the semester (for Phase I courses) or three days after they are informed of their grade (for Phase II courses).

Successful remediation with reassessment may not result in a final grade of greater than a “C-” and must be completed before a student can proceed to the next year in the curriculum.

Failure to successfully complete the remediation process will result in the original grade becoming final.

Remediation and reassessment is not offered for VMED 5010 elective courses.

## Administration of Remediation Process

1. Student: The student will work with the Office of Admissions and Student Success to request remediation to the course coordinator. This must be a written request presented no later than 3 days after the final grades are submitted/posted.
  - a. The letter of request should state why the student is seeking remediation.
  - b. The Office of Admissions and Student Success shall confirm that this is the first request for remediation and will serve as a student advocate/advisor, as necessary, during the remediation process.

2. Course Coordinator: Once a request for remediation is received, the course coordinator (in consultation with the course committee) will design a plan for remediation with reassessment that is appropriate for the student and will communicate that plan in writing to the student, to the Office of Admissions and Student Success and to their department head within 30 days of receiving the request for remediation.

- a. Remediation and reassessment plans should be cumulative and reflective of all course materials, as reassessment scores will replace the previous course grade. In courses with more than one examination, individual examination grades cannot be remediated and retested.
- b. The plan should include the date, time, and manner of reassessment. Agreement by the student in writing to the course coordinator should occur within one week of receipt of the plan.
- c. Remediation and reassessment must be completed at least two weeks prior to the start of the next fall semester.
- d. If there is disagreement between the student and course coordinator regarding the remediation plan or the date, time, or manner of the reassessment, the Dean or the Dean's representative will meet with the Department Head and the course coordinator as well as separately with the student and a representative from the Office of Admissions and Student Success to resolve the disagreement.
- e. Students should be notified of successful/unsuccessful completion of the remediation process no later than one week after the reassessment.

3. Scholastic Standards Committee: The Scholastic Standards will review any petitions for students seeking a second remediation.

### **Policy Concerning Failure of VMED 5010 Elective Courses**

A student receiving a grade of "F" in a VMED 5010 P/F-graded elective course will not receive credit for the course and will not have the option for remediation or retesting. The "F" grade by itself will not result in dismissal but will be reflected on the student's transcript, and the grade will count toward the overall GPA and the

accumulation of "D+" or below credits used in scholastic standards evaluation. The student will be placed on probation for the upcoming semester and may have the option to retake the course later in the curriculum (subject to feasibility of scheduling), in which case both grades will be reflected on the transcript.

### **Incomplete Grades**

Students in a Phase I or Phase II course who are performing at a satisfactory level but are unable to complete all of the requirements of the class due to circumstances beyond their control may be assigned an "I" grade. Examples would include (but are not limited to) medical issues and family emergencies. A student who wishes to be considered for a grade of "I" must make the request to the course coordinator in writing with an appropriate, documented excuse prior to administration of the final examination for the course (for Phase I courses) or prior to the last day of the rotation (for Phase II courses). The course committee will determine how the student's adequacy in completing the remainder of the course requirements will be assessed, and, once that assessment has been completed, will assign a final grade to replace the "I" grade.

In addition, students may receive a grade of "I" in a Phase II course if they are generally progressing at a satisfactory level but fail to demonstrate competency by the end of the clinical rotation in one or more of the clinical competencies outlined in the course syllabus. For an "I" grade to be assigned, the faculty assessing the student's performance must believe that additional time on the rotation will allow the student to adequately master the clinical competencies in question. The faculty assessing the student's performance will decide whether the student needs to repeat all or a portion of the clinical rotation or if some other remediation plan (such as weekend or emergency duty appropriate to the deficiency) would be appropriate. The Office of Student Success will schedule the additional time in the student's schedule. The additional time will not result in any additional credit being earned. Once the student completes the additional time on the clinical rotation, the course committee will replace the "I" grade in the course with a final grade based on the student's performance in both the original and the repeated rotation.

"I" grades must be replaced before a student can advance to the next year of the curriculum. Responsibility for changing an "I" grade lies



both with the student and the faculty members concerned. “I” grades that are not replaced within the time allowed will be changed to an “F” grade.

All “I” grades will be reported to and reviewed by the Scholastic Standards Committee at their regular end of semester meetings. If a student receives an “I” grade in multiple courses, the Scholastic Standards Committee, working with the relevant course committees, may elect to assign a more extensive remediation plan, or may assign a grade of “F” in one or more of the courses in question.

## 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.



*We Discover: The LSU School of Veterinary Medicine investigates a variety of diseases.*

## Professional Curriculum

Phase I • Year I • Fall				Hours:	Contact	Sem.	Phase I • Year I • Spring				Hours:	Contact	Sem.
5100	Introduction to Veterinary Medicine I			11		0.5	5001	Problem-Based Learning I			80		2
5103	Principles of Problem Solving			25		1	5010	Special Topics in Veterinary Medicine <sup>5</sup>			20		2
5104	Principles of Diagnostic Imaging I			13		1	5102	Introduction to Veterinary Medicine II			11		0.5
5109	Veterinary Physiology I			53		3.5	5112	Veterinary Physiology III			50		3
5111	Veterinary Physiology II			50		3	5125	Basic and Applied Anatomy III			108		4
5123	Basic and Applied Anatomy I			77		3.5	5130	Veterinary Bacteriology & Mycology			75		4
5124	Basic and Applied Anatomy II			78		3	5133	Developmental Morphology			20		1
5131	Cell Biology			30		2	5151	Clinical Skills I Spring			13		.5
5132	Microscopic Anatomy			61		4	5171	Neuroscience			54		3
5150	Clinical Skills I Fall			13		.5	5172	Veterinary Immunology			30		1.5
							5173	Veterinary General Pathology			50		3
<b>Total</b>				<b>411</b>		<b>22</b>	<b>Total</b>				<b>498</b>		<b>24.5</b>
Phase I • Year II • Fall				Hours:	Contact	Sem.	Phase I • Year II • Spring				Hours:	Contact	Sem.
5002	Problem-Based Learning II			80		2	5010	Special Topics in Veterinary Medicine <sup>5</sup>			10		1
5202	Animals in Society I			11		0.5	5203	Animals in Society II			13		0.5
5223	Veterinary Pharmacology			70		4.5	5242	Systemic Pathology II			30		1.5
5235	Veterinary Parasitology			80		4	5251	Clinical Skills 2 Spring			13		.5
5236	Veterinary Virology			32		2	5253	Epidemiology and Public Health			32		3
5241	Systemic Pathology I			100		4.5	5260	Principles of Veterinary Surgery			25		1.5
5250	Clinical Skills 2 Fall			13		.5	5261	Diseases of the Cardiovascular System			30		2
5270	Clinical Pathology and Diseases of the Hemolymphatic System			80		4	5262	Small Animal Orthopedics			23		1.5
5273	Endocrine and Metabolic Diseases			44		2.5	5263	Urinary System Diseases			28		2
							5265	Avian, Zoo and Exotic Animal Diseases			50		3
<b>Total</b>				<b>497</b>		<b>24.5</b>	5266	Diseases of Farm Animals			70		4
							5267	Veterinary Anesthesia			26		1.5
Phase I • Year III • Fall				Hours:	Contact	Sem.	Phase I • Year III • Spring				Hours:	Contact	Sem.
5011	Advanced -Veterinary Anesthesiology and Surgery			34		1.5	5272	Clinical Veterinary Oncology			28		2
5264	Diseases of Dogs and Cats			46		3.5	5365	Integumentary System			40		2.5
5315	Veterinary Radiology and Imaging			37		2	5371	Business Management			20		1
5320	Large Animal Clinical Nutrition			29		1	<b>Total</b>				<b>425</b>		<b>27.5</b>
5325	Small Animal Clinical Nutrition			29		1							
5350	Clinical Skills Laboratory			20		0.5	Phase I • Year III • Spring				Hours:	Contact	Sem.
5351	Veterinary Neurology			30		1.5	5366	Population Medicine			40		2.5
5352	Veterinary Ophthalmology			25		1.5	5370	Ethics and Jurisprudence			20		1
5361	Comparative Theriogenology			54		3	5372	Clinical Immunology and Infectious Diseases			41		2.5
5362	Diseases of Horses			76		4	<b>Total</b>				<b>101</b>		<b>6</b>
5363	Critical Care			54		3							
5373	Toxicology			40		2.5	Phase II <sup>2</sup>						
<b>Total</b>				<b>474</b>		<b>25</b>	<b>Sem.</b>						
							5010	Special Topics in Veterinary Medicine <sup>5</sup>			20		2
							5443	Anesthesiology <sup>4</sup>			80		2
							5452	Diagnostic Pathology <sup>3</sup>			80-160		2-4
							5454	Radiology and Diagnostic Imaging <sup>4</sup>			80-160		2-4
							5455	Avian, Zoo, Exotic and Marine Animal Medicine			40-160		1-4
							5456	Small Animal Medicine <sup>3</sup>			80-160		2-4
							5457	Small Animal Surgery <sup>3</sup>			80-160		2-4
							5458	Equine Medicine and Surgery <sup>3</sup>			80-160		2-4
							5460	Applied Veterinary Dermatology			80		2
							5462	Externship			80-200		2-5
							5463	Special Training			40-160		1-4
								Cardiology, Small Animal Orthopedic Surgery, Small Animal Soft Tissue Surgery, Clinical Pathology, Equine Ambulatory Medicine, Equine Breeding, Farm Management, Equine Race Track Practice, Exotic and Zoologic Animal Management, Farm Animal Health Maintenance, Laboratory Animal Medicine, Oncology, Poultry Medicine, Practice Management, Small Animal Community Practice, Large and Small Animal Emergency, Small Animal Rehabilitation, Animal and Community Welfare, Shelter Medicine, Spay/Neuter Training, Fish Medicine, Ultrasonography					
							5465	Applied Veterinary Theriogenology			40-160		1-4
							5467	Applied Veterinary Ophthalmology			40-160		1-4
							5468	Farm Animal Health Management <sup>1</sup>			160		4
<b>Total</b>							<b>Total</b>				<b>2080-2400</b>		<b>52-53</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.



# 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 Biomedical and 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 Biomedical and 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 (MS and PhD) in Biomedical and Veterinary Medical Sciences are offered by the School of Veterinary Medicine in its three departments: Comparative Biomedical Sciences, Pathobiological Sciences and Veterinary Clinical Sciences.

## 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,

the Department of Comparative Biomedical Sciences contributes to the professional and graduate programs of the LSU School of Veterinary Medicine. Each program is designed to provide advanced educational opportunities and the skills necessary for an intellectually challenging and rewarding career in a veterinary medical, academic, industrial, public health or governmental setting.

Major research concentrations in the Department include cancer biology, cardiovascular disease, developmental biology, neurosciences and toxicology. In cancer biology, CBS has a focus in the cell and molecular biology of DNA damage and repair systems, while our research in cell signaling pathways encompasses calcium signaling, cyclic AMP signaling and diabetes. There are ongoing investigations in neuroscience that includes neural systems research, synapse biology, and deafness and experimental neurology. Pharmacology research interests in Comparative Biomedical Sciences are rich and varied and include clinical and analytical pharmacology/toxicology and drug metabolism, cardiovascular pharmacology and toxicology, inhalation and developmental toxicology, post-transcriptional regulation in inflammation, hepatotoxicity, and cancer, respiratory research; environmental agents in atherosclerosis, and pulmonary immunobiology and toxicology. And not least in CBS research are programs in developmental biology, biomechanics and 2D and 3D imaging and evolutionary theory in veterinary anatomy, and the molecular biology of tooth eruption and stem cell research.

## 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 pathogenesis, 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 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 residency 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. Most faculty of the department hold concurrent appointments in the Veterinary Teaching Hospital 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. Recruitment and selection for this program are through the Veterinary Intern and Resident Matching Program (VIRMP). One-year rotating internships are available in companion animal medicine and surgery, equine medicine and surgery. One-year internships are also available in zoological medicine, cardiology, anesthesiology, diagnostic imaging, ophthalmology, oncology, companion animal surgery, integrative medicine, critical care, shelter medicine 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, cardiology, diagnostic imaging, medical oncology, radiation oncology, ophthalmology, 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 Biomedical and veterinary medical sciences.

## Dual Track Programs

Students pursuing their DVM can have the opportunity to advance their knowledge, experience, and overall qualifications with one of the dual track program options. The programs focus on taking additional courses to reduce the time and financial resources that it would take to get a DVM followed by a PhD or MPH Degree.

### DVM-PhD Dual Track Program

The DVM-PhD Dual Track Program is a unique program designed to enhance the research training of veterinary students to develop them as DVM scientists with a strong emphasis on biomedical and veterinary medicine. Students in this competitive program are expected to be highly qualified and strongly motivated students

who will pursue academic and research careers in the biomedical and veterinary medical sciences. The time to complete both degrees may be shortened by 1-2 years with a dual track approach rather than a sequential approach, although the length of the DVM program would still be four years. After three years in the DVM program, candidates will focus entirely on their PhD courses, research, and dissertation. After students have successfully defended their dissertation, they will finish the fourth year of their DVM program, graduating with both their DVM and a PhD in Biomedical and Veterinary Medical Sciences specializing in either Comparative Biomedical Sciences, Pathobiological Sciences, or Veterinary Clinical Sciences.

### DVM-MPH Dual Track Program

The DVM-MPH dual track program is a collaboration with the LSU School of Public Health in New Orleans designed to provide DVM students the working knowledge to apply DVM and MPH coursework and clinical experience to overall public health to connect how animals and the environment impact the health of humanity. During this 4-Year DVM-MPH dual track program, DVM students at LSU enjoy dynamic coursework, diverse field placements, and outstanding faculty from across the Health Sciences Center—providing them with advanced foundations in the disciplines of clinical veterinary medicine and public health. The DVM-MPH program provides students with the analytical tools to define, evaluate, and solve emerging health and health care problems.

# 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

If you are applying for admission into the professional DVM program, you should pay the appropriate fees as stated in the VMCAS application. A supplemental fee of \$100 must accompany the online supplemental application. Please visit [www.lsu.edu/vetmed/dvm\\_admissions](http://www.lsu.edu/vetmed/dvm_admissions) for more application instructions for the professional DVM program. Applications for graduate admission into the advanced studies programs must be accompanied by a \$25 nonrefundable application fee (check or money order) made payable to LSU. 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 to 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 with their designated number of contract seats.

## 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, \$3
- Doctor of Veterinary Medicine degree fee, \$40
- Duplicate diploma fee—\$20 (charged if a diploma is ordered and student does not graduate at that commencement)
- Replacement diploma fee—\$30

**Fall Semester Fees • Veterinary Medicine Students**

Hours	Residents	SREB Contract Fee	Nonresidents
<b>Full-time (10 or more hours):</b>			
15 hours	\$13,711	\$14,550	\$28,261
14 hours	\$13,706	\$14,550	\$28,256
13 hours	\$13,701	\$14,550	\$28,251
12 hours	\$13,696	\$14,550	\$28,246
11 hours	\$13,691	\$14,550	\$28,241
10 hours	\$13,686	\$14,550	\$28,236

**Preliminary Spring Semester Fees • Veterinary Medicine Students**

Hours	Residents	SREB Contract Fee	Nonresidents
<b>Full-time (10 or more hours):</b>			
15 hours	\$13,712	\$14,550	\$28,262
14 hours	\$13,707	\$14,550	\$28,257
13 hours	\$13,702	\$14,550	\$28,252
12 hours	\$13,697	\$14,550	\$28,247
11 hours	\$13,692	\$14,550	\$28,241
10 hours	\$13,687	\$14,550	\$28,237

Only students repeating courses and taking less than 10 credit hours in a semester are considered part-time students. These students should check with the LSU School of Veterinary Medicine Office of Student and Academic Affairs to determine the tuition and fee schedule for less than 10 credits.

All fees are estimates and the LSU Board of Supervisors may modify tuition and/or fees at any time without advance notice. Check current tuition and fees at [www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php](http://www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php).



*We Teach:* The LSU Veterinary Medicine Library is accessible 24/7.

**Fall Semester Fees • Graduate Students**

Hours	Residents	Nonresident Fee	Nonresident
	Tuition and Required Fees		Tuition and Required Fees
<b>Full-Time (9 or more hrs.)</b>			
15 hours	\$6,713	\$8,479	\$15,192
14 hours	\$6,650	\$8,475	\$15,125
13 hours	\$6,586	\$8,471	\$15,057
12 hours	\$6,522	\$8,469	\$14,991
11 hours	\$6,440	\$8,465	\$14,905
10 hours	\$6,357	\$8,462	\$14,819
9 hours	\$6,275	\$8,461	\$14,736
<b>Part-time:</b>			
8 hours	\$4,364	\$5,206	\$9,570
7 hours	\$4,068	\$5,199	\$9,267
6 hours	\$2,913	\$3,621	\$6,534
5 hours	\$2,618	\$3,614	\$6,232
4 hours	\$2,332	\$3,607	\$5,939
3 hours	\$1,545	\$802	\$2,347
2 hours	\$1,249	\$796	\$2,045
1 hour	\$957	\$786	\$1,743

**Preliminary Spring Semester Fees • Graduate Students**

<b>Full-Time (9 or more hrs.)</b>			
15 hours	\$6,705	\$8,472	\$15,177
14 hours	\$6,640	\$8,470	\$15,110
13 hours	\$6,579	\$8,466	\$15,045
12 hours	\$6,513	\$8,466	\$14,979
11 hours	\$6,432	\$8,461	\$14,893
10 hours	\$6,348	\$8,458	\$14,806
9 hours	\$6,266	\$8,454	\$14,720
<b>Part-time:</b>			
8 hours	\$4,4370	\$5,201	\$9,571
7 hours	\$4,071	\$5,196	\$9,267
6 hours	\$2,915	\$3,618	\$6,533
5 hours	\$2,623	\$3,610	\$6,233
4 hours	\$2,334	\$3,605	\$5,939
3 hours	\$1,548	\$801	\$2,349
2 hours	\$1,249	\$795	\$2,044
1 hour	\$958	\$786	\$1,744

*This information was obtained from the Office of Budget and Planning in July 2018. Tuition and fees may change without advanced notice. Current tuition and fees can be found at [www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php](http://www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php)*



**Required Fees • Full-Time Graduate & Veterinary Medical Students**

Mass Transit System	\$6/credit hour	\$6/credit hour	\$6/credit hour
LSU Union	\$4/credit hour	\$4/credit hour	\$4/credit hour
LSU Union Renovation Fund	\$7/credit hour	\$7/credit hour	\$7/credit hour
Campus Life Support	\$1/credit hour	\$1/credit hour	—
<b>Student Recommended Fees</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
Students Sports Recreation	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	5.00	5.00	-
LSU Union-Maintenance Fund	24.00	24.00	-
Mass Transit System	35.00	35.00	22.00
Organizational Relief Fund N/A	N/A	6.00	
LSU- TV	2.00	2.00	1.00
Women's Mass Transit (\$1.00 Total):			
Distr to Women's Transit Acct.	0.80	0.80	0.80
Distr to SGA Acct.	0.20	0.20	0.20
Gumbo ( Yearbook)	5.50	5.50	-
Legacy (Magazine)	1.50	1.50	-
Reveille (Newspaper)	2.00	2.00	1.00
SG Newspaper Initiative	1.00	1.00	-
SG Programming, Support, and Initiatives (\$5.50 total)			
Spring Concert	3.00	3.00	-
Fall Concert	0.30	0.30	-
New Initiatives Programming Fund	0.10	0.10	-
Testing Materials Fund	0.25	0.25	-
Organizations' Initiatives/Conference Support	0.65	0.65	-
Recreational Sports Assistance	0.20	0.20	-
Late Night Programming	1.00	1.00	-
Sustainability Fee	2.00	2.00	1.00
Vet School Graduate Student Travel Fund	6.00	N/A	-
<b>Subtotal</b>	<b>\$142.50</b>	<b>\$142.50</b>	<b>\$50.00</b>
Student Health Service Fee	\$175.00	\$175.00	\$100.00
<b>Other Allocated Fees</b>			
Mass Transit System	31.20	31.20	22.20
Student Government Association	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
Reveille (Newspaper)	2.00	2.00	0.75
Student Media	0.25	0.25	-
Yearbook (Spring Semester Only)	N/A	N/A	N/A
Legacy (Magazine)	N/A	N/A	N/A
LSU Union			
Union Fee	14.50	14.50	5.25
Maintenance Fund	7.50	7.50	3.75

*Other Allocated Fees continued*

Renovation Fund	85.00	85.00	41.00
Campus Life Support	20.00	20.00	3.00
Golf	1.25	1.25	0.75
Students Sports Recreation	155.00	155.00	65.00
Student Government Initiatives	-	1.00	-
Organization Programming and Support	-	1.25	-
Facilities Access	-	3.50	-
Organizational Relief Fund	-	0.25	-
<b>Subtotal</b>	<b>\$326.20</b>	<b>\$337.95</b>	<b>\$146.20</b>
<b>Total</b>	<b>\$643.70</b>	<b>\$647.45</b>	<b>\$296.20</b>
Registration Fee (Nonrefundable)	\$10.00	\$10.00	\$10.00
<b>Total Included In "Required Fees"</b>	<b>\$653.70</b>	<b>\$657.45</b>	<b>\$306.20</b>

All fees are estimates and the LSU Board of Supervisors may modify tuition and/or fees at any time without advance notice. Current tuition and fees can be found at [www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php](http://www.lsu.edu/bgtplan/Tuition-Fees/fee-schedules.php)

### 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 Student Health Center fee each fall and spring registration and for the summer term, if applicable. 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 semester 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, 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.

For more information on the Student Health Center, please go to [www.shc.lsu.edu](http://www.shc.lsu.edu).

### 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 registration 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 service charge will be assessed on all deferments.

## 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 Financial Aid Office 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. New

students who wish to receive advance pay should notify this office at least 30 days prior to registration. Information is also available at the Office of Veterans' Affairs Web site: [www.lsu.edu/va](http://www.lsu.edu/va).

## Financial Aid

Office of Enrollment Management

Office: Pleasant Hall

Phone: 225-578-3103

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

LSU administers all Title IV federal programs that 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, such as loans:

- Be enrolled as a regular student in a degree-granting or certificate program.
- Be a U.S. citizen or eligible noncitizen (permanent resident).
- Be enrolled at least half-time.
- 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, 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.gov](http://www.fafsa.gov). You must

complete the FAFSA for each academic year you would like to receive aid. To increase your chances of being considered for programs with limited funds, complete the FAFSA as soon after October 1 as possible. LSU's financial aid process begins with the summer term.

Once the Office of Enrollment Management has received your FAFSA, additional documentation may be requested through your myLSU accounts.

Once all documents are processed, an award letter will be sent via the student's myLSU 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.

Please note that students will not receive an award notice until all verification documents have been properly submitted and processed. Documents submitted after the stated deadlines may not result in an award. Student submitting documents after the stated deadlines may jeopardize their opportunity to receive funding for that academic year. 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.

## William D. Ford Federal Direct Loan Program

LSU participates in the following Title IV:

- Federal Direct 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. The interest rate on the unsubsidized loan will be the same as on the Federal Stafford Loan.

- Federal Direct Graduate PLUS Loans (GRAD PLUS) - This program is a loan for graduate and professional students that are taken 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; and (2) fall and spring loans will occur in two equal disbursements. All federal aid funds are applied directly to your student account in the Office of Bursar Operations. If the amount credited to your account is greater than the amount you owe to the University, you will be issued a refund for the credit balance. Allow up to seven business days for the Office of Bursar Operations to process a direct deposit or refund check.

Students borrowing under the loan programs described above are required by federal regulation to have an entrance counseling session before they receive their first disbursement at LSU. This brief online session explains important information about borrowing student loans and money management during school. 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. The online session explains what the borrower should expect upon entering loan repayment. Entrance counseling can be accomplished at [studentloans.gov](http://studentloans.gov). Exit counseling can be accomplished at [nslds.ed.gov](http://nslds.ed.gov). For additional information on a student's rights and responsibilities regarding federal financial aid, refer to [www.lsu.edu/financialaid](http://www.lsu.edu/financialaid) under Consumer Information.

## Private Loans

Private loans are a credit-based loans that are available to students who have reached their federal loan limit (unsubsidized and PLUS) but still need additional funding. For more

information, visit [www.lsu.edu/financialaid](http://www.lsu.edu/financialaid) and select Private Loans under Type of Aid.

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

- Students must have a 2.0 cumulative GPA.
- Students must earn at least 67 percent of hours attempted for the past academic year.
- Students enrolled in the DVM program may receive financial aid for a maximum of 267 attempted course hours.

If these established criteria are not met at the end of each summer/fall/spring semester, students may seek to appeal if mitigating circumstances affected their academic performance. Students are notified when they are not considered to be making satisfactory academic progress at the end of each summer/fall/spring semester. For a student to reestablish eligibility they must either

1. receive an approved appeal or
2. meet the Satisfactory Academic Progress requirements at the end of the next semester they enroll.

The complete Satisfactory Academic Progress policy may be viewed at [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.

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.

## Contact Information

For additional information, please visit the Office of Enrollment Management in 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 administered by the School of Veterinary Medicine are usually awarded based on academic achievement, financial need, character, service, and/or citizenship. Scholarship funds are made available through the generosity of the donors and friends of LSU Vet Med.

Applications for scholarships will open in the fall. Scholarship opportunities are listed and available through the Blackbaud system and can be found at the following link ([lsu.academicworks.com](http://lsu.academicworks.com)).

Students must submit applications to be eligible to receive most scholarships. The Scholarships and Awards Committee will determine recipients based on the scholarship criteria. Recipients will be notified in the Spring. Normally, the stipends are applied to student fee bills one-half during the fall semester and one-half during the spring semester of the upcoming year.

Several Year IV scholarships and awards are given out each year. The faculty members in their respective departments select many of these awards, typically based on academic achievement and skill proficiency.

Scholarship eligibility is dependent on the highest standards of honesty and integrity. If the LSU Office of Student Advocacy and Accountability finds a student responsible for behavioral misconduct, the school may find the student ineligible to receive a scholarship, and any pre-existing awards may be subject to withdrawal.

For a full listing of the scholarships administered internally or externally for the academic year, please visit the TEAMS channel where all external scholarship opportunities will be posted.



# STUDENT SERVICES

## University Housing

On-campus housing is available to graduate students; however is very limited for DVM students due to when DVM students are accepted. 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).

## Student Health Center

OFFICE • Student Health Center Building

TELEPHONE • 225-578-6271

FAX • 225-578-5655

WEB SITE • [www.lsu.edu/shc](http://www.lsu.edu/shc)

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). The center provides a variety of out-patient services including medical care, mental health services and health education. All visits and inquiries are confidential. The student health service fee, paid by full-time students during registration, entitles students to many of the services of the Student Health Center at no additional charge. There are additional charges for lab, diagnostic imaging, medication, and medical specialists.

The Student Health Center Medical Clinic has full-time primary care clinicians, gynecologists, and 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.

Mental Health Service provides crisis intervention and individual and group therapy. 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 include a resource room and an interactive Web page ([www.lsu.edu/shc/wellness](http://www.lsu.edu/shc/wellness)). Individual appointments are available for consultations on nutrition and weight management; stress and time management; sexual and reproductive health; 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. A departmental-sponsored peer education organization offers service learning and leadership development experiences.

## Student Accident and Sickness Insurance Plan

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.

All students in veterinary medicine are required to have sickness and accident insurance protection either through enrollment in the Student Accident & Sickness Insurance Plan or through proof of participation in any other equal or better program. This proof must be presented at the time of orientation. More information regarding health insurance requirements is available in the welcome packet sent to all students accepted in the DVM program.

## Postal Service

OFFICE • 101 and 103 LSU Student Union

To obtain an LSU Box, visit RICOH Mail & Printing Services at LSU. Office hours are Monday - Friday, 7:30 a.m. – 5:00 p.m. In order to receive an LSU box assignment and key, please bring two forms of photo ID, such as your LSU Tiger Card and/or drivers license. LSU boxes are available in three sizes. Small boxes

are \$70 per year; medium boxes are \$90 per year; and large boxes are \$120 per year. RICOH Mail and Printing Services at LSU accepts cash, checks, TigerCASH, or debit and credit cards. To send regular USPS mail and packages to an LSU Box, please follow this address format:

Recipient's Full Legal Name  
101 LSU Student Union Building  
LSU Box # \_\_\_\_\_  
0 Raphael Semmes Road  
Baton Rouge, LA 70803

To send a package via UPS or FedEx to an LSU Box, please follow this address format

Recipient's Full Legal Name  
LSU Box # \_\_\_\_\_  
LSU Student Union, Room 101  
0 Raphael Semmes Road  
Baton Rouge, LA 70803

Please contact Auxiliary Services at [uas@lsu.edu](mailto:uas@lsu.edu) with any questions, or visit RICOH's website at [ricohlsu.com](http://ricohlsu.com).

## University Recreation

OFFICE • 102 Student Recreation Complex

TELEPHONE • 225-578-8601

WEB SITE • [www.lsu.edu/urec](http://www.lsu.edu/urec)

E-MAIL • [urec@lsu.edu](mailto:urec@lsu.edu)

The Department of University Recreation provides a variety of recreational activities. To meet the diverse needs and interests of the University community, a multifaceted recreational program is offered that includes aquatics, informal recreation, healthy lifestyle programs, intramural sports, adventure recreation, sport clubs, and special event activities. For additional information, contact the Department of University Recreation.



*Fall in south Louisiana means LSU Tiger football and tailgating.*



# 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.

### Key to Course Information

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

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.

## Professional Courses

### Veterinary Medicine • VMED

**5001 Problem-Based Learning I (2) 74 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.

**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) 28 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) 13 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.

**5109 Veterinary Physiology I (3.5) 54 contact hours.** Muscle Physiology, Endocrinology, & Reproduction.

**5111 Veterinary Physiology II (3) 60 contact hours.** Cardiovascular & Gastrointestinal Physiology.

**5112 Veterinary Physiology III (3) 48 contact hours.** Basic renal and respiratory system dynamics.

**5123 Basic and Applied Anatomy I (3.5) 80 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) 86 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) 101 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.

**5130 Veterinary Bacteriology and Mycology (4) 70 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.

**5131 Cell Biology (2)** 30 contact hours.

This course deals with the biology of animal cells: the structure and function of cellular membranes and organelles; structure and function of nucleic acids and proteins; intracellular transport and cell signaling; cytoskeleton, extracellular matrix and cell motility/migration; cell cycle, growth, early differentiation and death; stem and cancer cells. This course is designed to develop an appreciation of the molecular and cellular basis of animal health and diseases, and how structure and functions of cells may be inherently related to those of tissues and organs.

**5132 Microscopic Anatomy (4)** 61 contact hours.

This course considers the histology of the basic tissues and the microscopic anatomy of the organ systems in domestic mammals, primarily the cat, dog, horse, and domestic ruminants. The histology of tissues and the histology of organ systems is an in-depth sequence covering the histology of mammals offered during the Fall Semester.

**5133 Development Morphology (1)** 20 contact hours.

This course, also known as “Embryology,” is the final part of an anatomical and histological course sequence (VMED 5123, 5124, and 5125; VMED 5131, and 5132) dealing with the pre- and postnatal development of tissues, primitive transient and permanent structures, and the organ systems in domestic mammals (primarily the cat, dog, horse, and domestic ruminants). Developmental Morphology (VMED 5133), along with Anatomy, Cell Biology, and Histology is an in-depth sequence covering the development of mammals offered during the Spring Semester.

**5150 Clinical Skills I Fall (.5)** 13 contact hours.

The Clinical Skills I Fall course is a mastery course that uses instructional videos, models, mannequins, simulators, and other teaching methods to enable

first year veterinary medicine students to learn and practice technical and non-technical skills related to correct handling and physical exam of different species, and familiarity with common veterinary equipment and procedures.

**5151 Clinical Skills I Spring (.5)** 13 contact hours.

The Clinical Skills 1 Spring course is a mastery course that uses instructional videos, models, mannequins, simulators, and other teaching methods to enable first year veterinary medicine students to learn and practice technical and non-technical skills related to correct handling and physical exam of different species, and familiarity with common veterinary equipment and procedures. This course builds on CS I and lecture and labs taught throughout the year.

**5171 Neuroscience (3)** 53 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.

**5250 Clinical Skills 2 Fall (.5) 13 contact**

*hours.* The Clinical Skills 2 Fall course is a mastery course that uses instructional videos, models, mannequins, simulators, and other teaching methods to enable second year veterinary medicine students to learn and practice technical and non-technical skills related to correct handling and physical exam of different species, and familiarity with common veterinary equipment and procedures. This course builds on Clinical Skills 1 Fall and Spring, as well as lecture and labs taught throughout the year.

**5251 Clinical Skills 2 Spring (.5) 13 contact hours.** The Clinical Skills 2 Spring course is a mastery course that uses instructional videos, models, mannequins, simulators, and other teaching methods to enable second year veterinary medicine students to learn and practice technical and non-technical skills related to correct handling and physical exam of different species, and familiarity with common veterinary equipment and procedures. This course builds on Clinical Skills 1 Fall, Clinical Skills 1 Spring, and Clinical Skills 2 Fall taught throughout the previous years.

**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**

*contact 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**

*contact 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.

**5350 Clinical Skills Laboratory (.5)**

**20** *contact hours.* Basic clinical skills necessary in the practice of companion animal veterinary medicine including restraint, physical examination, advanced diagnostic and therapeutic techniques, techniques used to evaluate the eyes and skin, clinical nutrition, and client communication and medical history taking.

**5351 Veterinary Neurology (3) 50**

*contact hours.* Comparative anatomy and physiology, pharmacology diagnosis, and therapy of diseases of the nervous system in domestic animals.

**5352 Veterinary Ophthalmology (3) 50**

*contact hours.* Comparative anatomy and physiology, pharmacology diagnosis, and therapy of diseases of the eye in domestic animals.

**5361 Theriogenology (3) 54**

*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 (1.5) 31** *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.

**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) 20**

*contact hours.* Introduction to veterinary ethics and the law; their relationship to the veterinary profession.

**5371 Business 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.

**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 (2-4) 80-160**

*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 (2-4) 80-160**

*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 Small Animal Internal Medicine and**

**Preventive Health (2-4) 80-160** *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 Small Animal Surgery (2-4) 80-160**

*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**

**(2-4) 80-160** *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 Externship (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:

- Emerging and Exotic Animal Diseases
- Human-Animal Bond
- Husbandry Considerations for the Non-traditional Pet
- Introduction to the Cat and Feline Medicine
- Introduction to Laboratory Animal Medicine
- Introduction to Raptor and Wildlife Medicine and Surgery
- Ornamental Fish Medicine
- Structure and Function of Skin and Skin Appendages of Domestic Animals
- Veterinarians in the Community
- Veterinary Medicine in International Development
- Shelter Medicine and Solutions to Overpopulation
- Topics in Ecosystem and Conservation Medicine
- Integrative Medicine
- Electrodiagnostic Tests in Veterinary Neurology
- Zoo Med: What's your Diagnosis?
- Introduction to Biomechanics for Clinicians
- Introduction to Equine and Large Animal Hospital Operation and Patient Care
- Equine Practice: Community Engagement

Courses offered to second year students only:

- Selected Topics in Feline Medicine

Courses offered to third and fourth year

students:

- Advanced Bovine Theriogenology
- Advanced Equine Gastrointestinal Diseases
- Advanced Equine Musculoskeletal
- Advanced Equine Respiratory Disease
- Advanced Equine Urogenital Problem Management
- Advanced Practice Management
- Advanced Small Animal Gastroenterology
- Diagnostic and Surgical Techniques in Exotic Animal Medicine
- Selected Topics in Feline Medicine
- Selected Topics in Veterinary Dentistry
- Small Ruminant Medicine and Surgery
- Equine Dentistry
- Advanced Equine Lameness
- Small Animal Nutrition: Practical Tips and Case Management
- Advanced Food Animal
- Advanced Small Animal Ultrasound
- Dentistry
- Advanced Endocrinology
- Small Animal Behavior
- Topics in Ecosystems and Conservation Medicine
- Practice Valuation
- Small Animal Behavior

## 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* May be 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.

**7004 Current Literature in Comparative Biomedical Sciences (1)** *Prereq: Permission of department.* May be taken for a max. of 6 hrs. of credit when topics vary. Review of the literature in areas of comparative biomedical sciences presented in a discussion format.

**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.

**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.

**7200 Basic and Applied Anatomy 1 (3.5)** *Prereq.: Permission of department.* 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.



**7201 Basic and Applied Anatomy 2**

**(3) Prereq.:** *Permission of department.* 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.

**7202 Basic and Applied Anatomy 3**

**(4) Prereq.:** *Permission of department.* 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.

**7205 Cell Biology (2) F 20 contact hours.**

The molecular and cellular basis of animal health and diseases, and how structure and functions of cells may be inherently related to those of tissues and organs.

**7206 Microscopic Anatomy (4) F 78**

*contact hours.* The histology of the basic tissues of the body and the microscopic anatomy of the organ systems in domestic mammals with consideration of the organ-specific microscopic structures covering the respiratory and urogenital organs, digestive system, defense and sensory organs, and skin.

**7207 Developmental Morphology (1) S**

*18 contact hours.* The pre- and postnatal development of tissues, primitive transient and permanent structures, and the organ systems in domestic mammals (primarily cat, dog, horse, and domestic ruminants), starting at fertilization; including applied developmental knowledge of problems the mother and newborn might encounter after birth.

**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.

**7617 Autonomic Nervous System (3)**

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

**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) S**

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

**7632 Biomedical Physiology 1 (3.5) F**

*Prereq.:* *consent of instructor.* Physiological mechanisms underlying the muscular, gastrointestinal, and endocrinological systems of domestic species. Dr. J. Francis.

**7633 Biomedical Physiology 2 (3) F**

*Prereq.:* *consent of instructor.* Physiological mechanisms underlying the respiratory and cardiovascular systems of domestic animals. Dr. Y. Saini.

**7634 Biomedical Physiology 3 (3) S**

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

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

**(1) 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)** *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)** *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)** *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; 7302 offered 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)** *Prereq.: BIOL 4121 and 4122 or equivalent.* Epidemiology, ecology, and control of major infectious and parasitic zoonoses.

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

**7404 Pathogenic Mechanisms of Bacteria (3)** *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)** *Prereq.: BIOL 4094 or equivalent. See BIOL 7289.*

**7411 Molecular Mechanisms of Viral Pathogenesis (3)** *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)** *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)** *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)** *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)** *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)** *Prereq.: course in parasitology or equivalent.* Population regulation and

distribution of parasitic and vector-borne diseases of veterinary and medical significance; disease risk in populations and control strategies based on population models, transmission dynamics, climate, nutrition, immunity, geographic information systems, and herd health programs.

### **7423 Cellular and Molecular Immunology**

**(3) 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)**

*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)**

*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) 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) 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) Prereq.:**

*DVM degree or equivalent and PBS 7516.* 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) 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) 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) 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 postmortem 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.) 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.* Cardiovascular 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.

### **7211 Advanced Veterinary**

**Cardiorespiratory Disease (3) V Prereq.:** *DVM or equivalent degree or consent of instructor.* Cardiovascular and respiratory diseases and related conditions with emphasis on pathophysiology, diagnostic and management options.

**VCS 7212 Biomechanics of Fractures and Fracture Fixation (3) V** Prereq.: DVM or equivalent degree or consent of instructor. Principles of biomechanics as applied to fractures and fracture fixation, including design and biomechanical testing devices for fixation of bone fractures arising in veterinary orthopedic surgery.

**VCS 7213 Advanced Veterinary Diagnostic Imaging Interpretation: Small Animal (3) V** Prereq.: DVM or equivalent degree or consent of instructor. Advanced training in radiographic, ultrasonographic, computed tomographic and magnetic resonance imaging examination interpretation in common small animal diseases.

**VCS 7214 Advanced Veterinary Diagnostic Imaging Interpretation: Large Animal (3) V** Prereq.: DVM or equivalent degree or consent of instructor. Advanced diagnostic imaging interpretation of radiographic, computed tomography, ultrasonographic, scintigraphic and magnetic resonance imaging examinations in large animals.

**VCS 7215 Advanced Veterinary Diagnostic Imaging: Interventional Techniques Laboratory (2) V** Prereq.: DVM or equivalent degree or consent of instructor. Interventional tissue sampling and therapeutic guided procedures performed with fluoroscopy, computed tomography (CT) and ultrasonography (US) in animals.

**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.

## 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.



# 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.)

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.)

**Ahmed Abdelmoneim Mohammed** • *Assistant Professor of Toxicology (Department of Comparative Biomedical Sciences) (01-04-2021)* • BVMS, Assiut University College of Veterinary Medicine (Egypt), 2007; MS, University of Poitiers (France), 2011; PhD, Purdue University, 2016.

**Basel Abuaita** • *Assistant Professor of Infectious Diseases (Department of Pathobiological Sciences) (07-01-2021)* • BS, University of Michigan, 2005; PhD, Wayne State University, 2010.

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

**F. Kareem Al-Bagdadi** • *Adjunct Associate Professor of Veterinary Anatomy & Cell Biology (Department of Comparative Biomedical Sciences) (9-15-75)* • BVMS, 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.

**Ethan Anderson** • *Assistant Professor (Comparative Biomedical Sciences) (08-15-2023)* • BS, University of Florida, 2008; PhD, University of Florida, 2012.

**Frank M. Andrews** • *Director, Equine Health Studies Program; Professor of Equine Medicine and Interim Head (Department of Veterinary Clinical Sciences) (08-01-08)* • BS, Washington State University, 1979; DVM, Washington State University, 1983; MS, Washington State University, 1983; Diplomate, American College of Veterinary Internal Medicine (internal Medicine).

**Rose E. Baker** • *Associate Professor of Equine Medicine (Department of Veterinary Clinical Sciences) (09-21-2017)* • BA, Johns Hopkins University, 2005; BVMS, University of Glasgow, 2012; cVMA, CuraCore Integrative Medicine & Education Center, 2014; MS, Oregon State University, 2017; Diplomate, American College of Veterinary Internal Medicine (LAIM).

**Udeni Balasuriya** • *Associate Dean for Diagnostic Operations; Director, Louisiana Animal Disease Diagnostic Laboratory; Professor (Department of Pathobiological Sciences) (07-01-2018)* • BVSc, University of Peradeniya (Sri Lanka), 1985; MS, University of California, Davis, 1991; PhD, University of California, Davis, 1996; Fellow, Sri Lanka College of Veterinary Surgeons.

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**George M. Strain** • *Professor Emeritus of Veterinary Physiology, Pharmacology & Toxicology (Department of Comparative Biomedical Sciences) (10-1-78)* • BS, University of Illinois, 1971; MS, Iowa State University, 1973; PhD, Iowa State University, 1977; Fellow, American Academy of Veterinary Pharmacology and Therapeutics.

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**Guoshin Wang** • *Adjunct Associate Professor (Department of Pathobiological Sciences) (1-1-2010)* • DVM equiv., Nanjing Agricultural University (China), 1985; MS, Beijing Agricultural University (China), 1988; PhD, Peking University (China), 1992.

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**Nanny Wenzlow** • Assistant Professor of Veterinary Forensic Pathology (Department of Pathobiological Sciences) (06-07-2022) • Dr.vet. med., University of Liege (Belgium), 2003; PhD, University of Florida, 2017; Diplomate, American College of Veterinary Pathologists.

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**Xiaochu Wu** • Instructor (Department of Comparative Biomedical Sciences) (9-24-07) • BS, East China Normal University (China), 1987; MS, Chinese Academy of Sciences (China), 1990; MS, York University (Canada), 2002; BS, University of Saskatchewan (Canada), 2004; PhD, University of Saskatchewan (Canada), 2007.

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**\*\*Masami Yoshimura** • Associate Professor (Department of Comparative Biomedical Sciences) (8-15-05) • BSc, Kyoto University (Japan), 1979; MSc, Kyoto University, 1981; DSc, Kyoto University, 1984.

# 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 and welfare, the prevention and relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.

\*Adopted by the AVMA House of Delegates, December 2010.



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Veterinary Medicine**

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