

Mission & Goals

The mission of the Laboratory Animal Science Program at EVMS is to provide the essential knowledge and skills to produce competent professionals in the laboratory animal field.

To accomplish this, the program focuses on the following eight areas:

- Knowledge of basic anatomy and physiology
- Knowledge and provision of husbandry and general care for laboratory animals
- Knowledge, application and enforcement of current laws and ethical codes of laboratory animal use in science
- Knowledge of common diseases and treatment of laboratory animals
- Knowledge of routine surgical procedures and related equipment
- Knowledge, application and monitoring of safe and effective anesthesia and analgesia
- Knowledge of animal facility and laboratory management principals
- Knowledge of routine research laboratory techniques, research design and data analysis

Contact Information

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Career Prospects

Students in the program earn a Biomedical Science Master's degree with a specialty in Laboratory Animal Science in two years. Our objective is to provide the biomedical research community with skilled individuals in laboratory animal science who can fulfill needed positions in academia, industry (biotechnology and pharmaceutical companies) and animal care facilities immediately upon graduation. The program can also improve the standing of those students who desire to advance their training in veterinary medicine for their application to veterinary school.



EVMS is committed to the principles of humane laboratory animal use, defined by the 3R's of Replacement, Reduction and Refinement. These principles will most effectively be implemented if the animal users are sensitive and receptive to technical and ethical improvements and also have received outstanding, specialized training for the use and care of laboratory animals in biomedical research.

EVMS
Eastern Virginia Medical School

**Community Focus.
World Impact.**



Laboratory Animal Science Master's Program

For more information about the LAS Master's Program, email lasinfo@evms.edu or visit us at evms.edu/las.

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About the LAS Master's Program

Much of modern-day medicine is indebted to irreplaceable animal research. With the need for technically sophisticated, humane and well-considered use of animals in biomedical research, the demand for qualified individuals is very high. Eastern Virginia Medical School offers an online Master of Laboratory Animal Science degree program to assist in your advancement within this highly competitive industry.

Program courses are designed to build a solid foundation for a successful career in laboratory animal science. These courses focus on all aspects of laboratory animal science, such as diseases, care, husbandry and facility management. The practicum provides students with the opportunity to apply their theoretical knowledge to the actual practice of laboratory animal science.

Educational Format

The online Master of Laboratory Animal Science program allows maximum flexibility for the students and is designed for individuals who may currently be working within the field of laboratory animal science and seeking career advancement, or those looking for opportunities in research laboratories but who do not wish to relocate to attend a traditional master's program.

Our program comprises 31 credits in five semesters over two years. Students are required to attend the one-week on-campus internship course during the summer semester. Optional Clinical Reproductive Biology (CRB) track is available during the sixth semester for an additional six credit hours.

Course Curriculum (per semester)

- Comparative Anatomy & Physiology, Applied Biostatistics & Research Design
- Diseases of Lab Animals I, Laboratory Animal Husbandry, Care & Ethics, Journal Club
- Anesthesia & Surgery, Internship
- Facility Management, Diseases of Lab Animals II
- Biotechnology & Diagnostic Techniques Graduate Seminar, Cryopreservation, Lab Animal Behavior & Behavioral Management

Optional CRB Track Courses:

- Introduction IVF, Laboratory Tech, & Skills Development
- In Vitro Fertilization Technology

Admission Requirements

Bachelor's or graduate degree with a 2.50 or higher GPA or qualifying GPA from a U.S. accredited college or university or an international equivalent.

Applicants should be advised that a cumulative GPA of 3.0 or higher is a graduation requirement from our program.

Successful completion of two semesters each of college-level Biology and Chemistry, and one semester of Mathematics.

Minimum of three months or 500 hours of hands-on experience in related technical standards that can be found on our program web page.

Applicants who desire a future as a Laboratory Animal Technologist are strongly encouraged to continue a full-time experience/employment during the two years of matriculation of the master's program to be eligible for American Association of Laboratory Animal Science (AALAS) LAT and LATG certification.

International students should take the TOEFL or equivalent test and receive a score equal to or greater than 213 or equivalent.

Two letters of reference, one of which must verify the minimum hands-on animal experience requirement.

Personal statement outlining the applicant's academic and professional goals.

Computer and computer services with various specifications as detailed on our website.

For more information on our admission requirements and Early Assurance Program requirements, please visit the Admission page on our website.

Application Process

Please visit evms.edu/las to learn more about our application process.