

# ONLINE PROGRAM

## MASTER OF LABORATORY ANIMAL SCIENCE

**D**rexel University College of Medicine in Philadelphia, Pennsylvania is the **only** institution in the country that offers an online master's degree in laboratory animal science. For more than 20 years, the traditional Master of Laboratory Animal Science (MLAS) program has trained students in the proper care and management of laboratory animals and facilities. Established in 1985, the MLAS program was designed with input from laboratory animal scientists, laboratory animal facility managers, veterinarians, and researchers to address the need for professional development in the laboratory animal industry.

MLAS graduates hold a variety of professional positions including:

- Supervisors and managers of laboratory animal facilities and research laboratories in universities, biotechnology institutions, government agencies, and pharmaceutical companies
- Trainers, educators, consultants, and sales representatives

Some MLAS graduates establish and operate their own private companies and others serve the industry as Institutional Animal Care and Use Committee (IACUC) coordinators.

## ONLINE MASTER OF LABORATORY ANIMAL SCIENCE PROGRAM

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The Office of Professional Studies in the Health Sciences at Drexel University College of Medicine offers the three-year, 36-credit online Master of Laboratory Animal Science program. The program is designed specifically for individuals who are seeking career advancements but are unable to physically relocate and attend the program in Philadelphia. The courses in the online program are substantially the same as those offered in our traditional program in Philadelphia but allow maximum flexibility for the student. For the online program, the summer practicum is waived; instead, applicants must have a minimum of two years experience working in the field of laboratory animal science. The online program has a part-time curriculum that enables individuals to work and advance their education concurrently. Courses maximize the opportunities for learning from other students as well as from our highly experienced faculty.

The online MLAS program combines the following areas of training:

**The Basic Science** courses build a solid foundation required for a successful career in laboratory animal science. These graduate level courses include:

- Comparative Vertebrate Anatomy
- Embryology
- Microbiology
- Molecular Genetics

**The Laboratory Animal Science** courses focus on all aspects of laboratory science and animal facility management. These courses include:

- Animal Models in Biomedical Research
- Architecture, Engineering & Planning of Laboratory Animal Facilities
- Biology & Care of Laboratory Animals
- Clinical Orientation to Laboratory Animal Facility
- Clinical Laboratory Techniques & Concepts
- Diseases of Laboratory Animals
- Biostatistics
- Financial Management in Laboratory Animal Science
- Laboratory Animal Seminar
- Organizational Management

## CURRICULUM

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<i>FALL SEMESTER – YEAR 1</i>	<i>CREDITS</i>
Microbiology	4.0
Embryology	3.0
Clinical Orientation in Laboratory Animal Science	1.0
<b><i>Total</i></b>	<b><i>8.0</i></b>

<i>SPRING SEMESTER – YEAR 1</i>	<i>CREDITS</i>
Financial Management in Laboratory Animal Science	3.0
Molecular Genetics	2.0
<b><i>Total</i></b>	<b><i>5.0</i></b>

<i>FALL SEMESTER – YEAR 2</i>	<i>CREDITS</i>
Organizational Management	3.0
Animal Models in Biomedical Research	1.0
<b><i>Total</i></b>	<b><i>4.0</i></b>

<i>SPRING SEMESTER – YEAR 2</i>	<i>CREDITS</i>
Biology and Care of Laboratory Animals	4.0
Biostatistics in Vet Science	3.0
<b><i>Total</i></b>	<b><i>7.0</i></b>

<i>FALL SEMESTER – YEAR 3</i>	<i>CREDITS</i>
Comparative Vertebrate Anatomy	2.0
Diseases of Laboratory Animals	3.0
Clinical Laboratory Techniques and Concepts	1.0
<b><i>Total</i></b>	<b><i>6.0</i></b>

<i>SPRING SEMESTER – YEAR 3</i>	<i>CREDITS</i>
Architecture, Engineering & Planning of Lab Animal Facility	4.0
Laboratory Animal Seminar	2.0
<b><i>Total</i></b>	<b><i>6.0</i></b>

## ONLINE MLAS ADMISSION REQUIREMENTS

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- Bachelor's degree from an accredited U.S. college or university or an international equivalent
- Cumulative GPA of 3.0 or higher
- General Graduate Record Exam (GRE) or Miller Analogies Test (MAT) with scores obtained within the last 5 years
  - If you are submitting GRE scores, release your scores directly to GRE school code 2285 and department code 0609
  - If you are submitting MAT scores, request that your scores be sent directly to MAT code 2689
- Official transcripts from all post-secondary institutions attended
- Current employment in a laboratory animal facility with a minimum two years of hands-on experience
- Three letters of reference; one letter must be from your current workplace supervisor
- Personal statement explaining your academic and professional goals
- An individual at your current workplace who is willing to serve as a consulting mentor, e.g., your supervisor or director
- Computer with current operating system, wired high-speed Internet connection, headset with microphone, and Web browser (Drexel students receive licensed versions of required software. Visit [www.drexel.edu.irt](http://www.drexel.edu.irt) for details. )

## APPLICATION PROCEDURES AND DEADLINES

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1. Submit your completed application form by the second Friday in July of the year you seek admission. You can download the application from our website: [www.drexelmed.edu/ims/applications](http://www.drexelmed.edu/ims/applications)
2. Enclose the required documentation as noted on the previous page, plus an **application fee of \$65**. Make checks payable to **Drexel University**. Please do not send cash.
3. Send application to:  
Online Master of Laboratory Animal Science Program  
Drexel University College of Medicine  
245 N 15<sup>th</sup> St., Mail Stop 344, Room 4104 NCB  
Philadelphia, PA 19102-1192

Once your application is complete, your credentials are forwarded to the Professional Studies Committee. The Committee meets every third Wednesday of each month. Within 2 weeks of the meeting, The Office of Professional Studies in the Health Sciences will notify you in writing of the Committee's decision.

## INTERNATIONAL APPLICANTS

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International applicants (non-United States citizens) must meet the same requirements for admission as students from the United States. Applicants whose native language is not English must demonstrate the ability to speak, write and understand the English language by submitting an acceptable score on the Test of English as a Foreign Language (TOEFL).

CONTACT US FOR MORE INFORMATION ABOUT THIS PROGRAM

Office of Professional Studies in the Health Sciences  
Drexel University College of Medicine  
Attention: Online MLAS Program  
245 North 15<sup>th</sup> Street, MS 344, Room 4104 NCB  
Philadelphia, PA 19102-1192



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