MASTER’S DEGREE PROGRAMS

Become one of the hundreds of laboratory professionals to advance your career by earning your Master’s degree while you work.

Our Master’s degree programs attract people working in the biomedical laboratory from across the country. We value their diversity. Their varied professional and cultural backgrounds bring unique perspectives to our program.

The Master’s programs are designed to expand the skills of laboratory professionals. This is done by presenting new technologies and advanced concepts. We emphasize a multi-disciplinary approach. Our faculty encourage the innovative thinking necessary for navigating the rapidly changing medical landscape.

We are committed to advancing the education of working professionals, so we make our Master’s degree programs available fully online. The pace at which the student progresses through the program varies. The program length can be designed to fit the working professional’s needs. The Master’s degree can be completed in as little as 2 years or as many as 6 years. Minimum credit requirements for our programs are 30 to 31 credits (based on the degree program). Each student’s program is individually designed by the student, the graduate advisor, graduate director and their graduate committee to meet the needs and interests of the student.

Master’s Degree Programs Offered

Master of Science in Clinical Laboratory Science inspires research in the clinical lab. It promotes innovative thinking. The coursework is tailored to the student’s interests and research project. The student completes their research project with support from MSU faculty and a local mentor.

“IT CAME AWAY FROM THE PROGRAM KNOWING ADVANCEMENTS IN LABORATORY MEDICINE AND MANAGEMENT; HAVING MORE CONFIDENCE AND A LIST OF TANGIBLE AND MARKETABLE SKILLS.”

- REX FAMITANGCO, MS, MLS (ASCP)™, QLC® MT(AMT) CCAH, MSU MASTER OF SCIENCE IN CLS (BRIDGEPORT, NE)

Master of Science in Biomedical Laboratory Operations is designed for laboratory professionals who seek career advancement as managers, administrators, policymakers and entrepreneurs. The degree provides a comprehensive education in the science, finance and regulations of a biomedical lab. It incorporates a science/management research project to develop the student’s skills in an area of interest.

If you are currently taking courses as a Lifelong student, you may transfer up to 9 credits toward a degree program. Contact the Graduate Program Coordinator for details.

For more information on the Graduate Programs, their cost and how to enroll, visit our website: https://bld.natsci.msu.edu/online-education/

OR CONTACT:
Michelle Russell MS, MLS (ASCP)™ Graduate Program Coordinator and Academic Advisor russmic@msu.edu (517) 432-2559

“THIS IS MY SECOND INDEPENDENT PUBLICATION SINCE STARTING MY MASTER OF ARTS PROGRAM AT MSU....THIS PROGRAM HAS EXCEEDED MY EXPECTATIONS ALL AROUND...”

-Kristi Williams, MT(ASCP)SBB (Washington, IL)
Certificate Programs Available

Molecular Laboratory Diagnostics
This program is designed for technologists that want to update their skills for today’s modern molecular diagnostics lab. The courses cover topics on molecular biology theory, techniques, assay design and implementation. These skills can be applied to various lab settings. This series provides a solid background for the ASCP Molecular Biology certification; however, these courses do not meet the exam eligibility requirements.

Immunodiagnostics and Clinical Flow Cytometry
This program trains lab technologists to apply immunologic principles to current clinical practice. Students design and assess methods in the immunology lab. Flow cytometry is also introduced in this series.

Advanced Flow Cytometry
This program, tailored for flow cytometry professionals, introduces concepts of advanced flow cytometry assay design and analysis. The courses include content on 8-10 color assays, sorting and quality control.

Clinical Mass Spectrometry
This program is designed for professionals who want to learn more about mass spectrometry. It's intended for both beginners and experienced technologists. Students explore mass spectrometry theory and its use in the clinical lab.

Managing Biomedical Laboratory Operations
This program is designed for working professionals aiming to advance into leadership roles or update their management skills in the biomedical lab. This course series provides a solid foundation in the science, finance and regulations of a biomedical lab.

Transfusion Service Management
This series explores the best practices and common work themes of transfusion management. These subjects range from theories of coagulation and hemostasis through adverse transfusion outcomes and resource management.

For more information on the Certificate Programs, their cost and how to enroll, visit our website: https://bld.natsci.msu.edu/online-education/

OR CONTACT:
Aimee Stewart, Curriculum Assistant
stewa150@msu.edu
(517) 884-3483

*I just took the ICCE certification exam and passed! Taking your class gave me the information I needed to succeed.*

–Barbara Hammond, MLS(ASCP)**, C.Cy. (ICCE) (Avon, IN)