

MEDICAL LABORATORY SCIENCE

BACHELOR OF SCIENCE DEGREE

RESULTS THAT MAKE A DIFFERENCE



Medical laboratory scientists work behind the scenes to provide critical information to doctors through medical tests. In fact, lab results inform more than 70% of diagnoses, allowing doctors to tailor treatment plans and therapies to each patient.

Medical laboratory scientists may also pursue careers in medical information systems technology, research and design new testing methods, or go on to medical school.



WAYNE STATE

Eugene Applebaum College of
Pharmacy and Health Sciences



BEYOND THE CLASSROOM

Wayne State's medical laboratory science (MLS) students spend the last 22 weeks of the program earning clinical experience through full-time, 40 hour per week internships around Michigan.

Clinical internship sites include:

- Henry Ford Health System
- Ascension Providence Rochester
- Garden City Hospital
- Lake Huron Medical Center
- Corewell Hospital, Dearborn
- Detroit Medical Center
- Michigan Medicine – University of Michigan

Our students participate in the **American Society for Clinical Laboratory Science–Michigan conference** each April, where they learn from and network with professional clinicians, and have the option to present their research posters. They also take a mock certification exam to prepare them for the national boards.

Our students and faculty also inspire the next generation of lab scientists by participating in Wayne State's **outreach to middle and high schoolers**, including events like STEM Day and Community Apple Days.

100% of our students are employed within 3 months of earning their degree. Many have multiple job offers before graduation.



\$83,816

average salary for medical lab scientists in the Michigan area



The starting salary for medical lab scientists is about \$60,000.



The need for medical lab scientists is growing much faster than average, at a projected rate of 16% over the next 10 years.

READY FOR THE REAL WORLD



"The MLS program has prepared me exceptionally well for my clinical rotation in a real-life lab. From the classroom, it has been a seamless transition. Every course we take and every assignment we complete is training us for our future career, and the future for MLS students is wide open."

*Natalie Conti, Class of 2020
Intern at Michigan Medicine*

An anchor in urban health care

As one of the founding colleges of Wayne State University, the Eugene Applebaum College of Pharmacy and Health Sciences is built on 100 years of tradition and innovation in the heart of Detroit. We have grown deep roots in our city, harnessing its powerhouse hospital systems and community service organizations as vibrant, real-world training grounds for our students. And our research at all levels – from undergraduates to veteran faculty members – translates into creative solutions for healthier communities.



CPHS.WAYNE.EDU/MLS



SELECTED MEDICAL LAB SCIENCE COURSES

Instrumentation: Fundamental laws of electronics, the theoretical basis of instrument design, and quality control in laboratory testing. Application of instrumental methods, including spectrophotometric, fluometric, electroanalytical and chromatographic methods to the clinical laboratory.

Urine and Body Fluid Analysis: Specimen collection, preparation, and examination of urine and other body fluids such as spinal fluid, semen and synovial fluid.

Clinical Hematology: Theory and principles for evaluation of the quantity, morphology and function of cellular components of blood.

Clinical Chemistry: Biochemical analysis of blood and other body fluids to determine values of various chemical substances, using routine methods and automation.

Clinical Blood Bank: Theory and principles involving antigen-antibody reactions of blood. Obtaining, storage and preparation of whole blood or blood components for infusion.

Diagnostic Microbiology: The fundamentals of clinical bacteriology, human infectious diseases, clinical virology, mycology and parasitology.

Molecular Diagnostics: Review of molecular biology applicable to current testing systems. Laboratory techniques to elucidate molecular structure and disease states; DNA hybridization, agarose gel electrophoresis; southern and western blot techniques; DNA sequencing; PCR.

OUR FACULTY

Karen Apolloni has 20 years of experience working in hospital labs. As program director, she ensures that MLS students are on track and that the curriculum is relevant to the field's latest innovations and technologies.

Ronette Chojnacki has 24 years of working in a medical laboratory and 19 of those years in microbiology. She teaches Diagnostic Microbiology and Immunology for the Clinical Laboratory Science program.

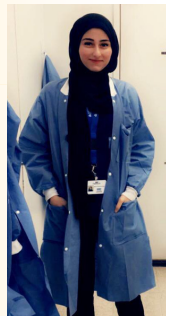
Megan Faucett has over 6 years of experience working in hospital and research laboratories on the bench and in management. She is passionate about preparing her students with the necessary knowledge and skills to provide the highest quality of care for all patients.

MaryAnne Stewart has over 18 years of experience working in Canadian and American Hospital Laboratories as a bench scientist and in management. In addition to teaching, service and research in the MLS program at WSU, she also holds a research position at Children's Hospital of Michigan in the Hemostasis Reference lab.

DIVERSITY MATTERS IN DETROIT

"Going to school in Detroit is considerably great for international students due to the level of diversity it presents. Canadian students like myself are able to experience the benefits of Wayne State so close to home."

*Fatima Ajrouche, Class of 2020
Intern at Detroit Medical Center
and Detroit Receiving Hospital*



LEARN MORE

Information meetings for prospective students are held on the first Tuesday of each month at 6 p.m. Eastern Time on Zoom.

Join us to learn more about medical laboratory science and other programs offered by the college.

Register to attend at cphs.wayne.edu/info

CONTACT US

An Academic Services Officer can answer any questions you may have and help guide you through the application process.

cphsinfo@wayne.edu
313-577-1716

Accredited by the
**NATIONAL ACCREDITING
AGENCY FOR CLINICAL
LABORATORY SCIENCES**

naacls.org

Application
deadline

MAY 1

wayne.edu/apply



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