



ADMISSION

The following are the requirements for admission to the Clinical Laboratory Sciences (CLS) program in the Graduate School of Basic Medical Sciences.

- A completed application submitted electronically via www.nymc.edu/gsbmsapply.
- Applicants must have obtained a baccalaureate degree in a science from an accredited college or university.
- For a full list of prerequisite coursework, visit www.nymc.edu/mcls.
- Previous, applicable clinical laboratory employment will be taken into consideration.
- Official transcripts submitted from all post-secondary schools attended.
- International applicants must supply TOEFL/IELTS scores.
- Two professional/academic reference letters.
- CV/Resume.

APPLICATION DEADLINE

The application deadline is May 1.

FINANCIAL AID

New York Medical College has a full-time financial aid office that is available to help you plan and manage your finances.

For more information, please visit www.nymc.edu/mcls



NEW YORK MEDICAL COLLEGE

A MEMBER OF THE TOURO COLLEGE AND UNIVERSITY SYSTEM



LOCATION

New York Medical College is located on a 54-acre suburban campus in Valhalla, New York, 15 miles north of New York City. The College is easily accessible by highway and is seven miles from the Tappan Zee/Governor Mario M. Cuomo Bridge. Frequent rail and bus service is available. Directions are available at www.nymc.edu/directions.

ABOUT US

Founded in 1860, New York Medical College (NYMC) is one of the nation's largest private health sciences colleges. A member of the Touro College and University System, NYMC is located in Westchester County, New York, and offers degrees from the School of Medicine, the Graduate School of Basic Medical Sciences and the School of Health Sciences and Practice as well as a school of dental medicine and a school of nursing. NYMC provides a wide variety of clinical training opportunities for students, residents and practitioners. The College has a strong history of involvement in the social and environmental determinants of health and disease and special concern for the underserved.

FOR MORE INFORMATION

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NEW YORK MEDICAL COLLEGE

GRADUATE SCHOOL OF BASIC MEDICAL SCIENCES

BASIC SCIENCES BUILDING – ROOM A41

VALHALLA, NEW YORK 10595

WWW.NYMC.EDU/GSBMS



NEW YORK MEDICAL COLLEGE

A MEMBER OF THE TOURO COLLEGE AND UNIVERSITY SYSTEM

Graduate School of Basic Medical Sciences



**MASTER OF SCIENCE IN
CLINICAL LABORATORY SCIENCES**



INTRODUCTION

Trained to work in medical, industrial or pharmaceutical laboratories, clinical laboratory scientists are at the heart of clinical care—performing diagnostic tests which monitor treatments and uncover new disease states, while continuously communicating with medical staff to improve patient care and treatment outcome.

Training to become a clinical laboratory scientist encompasses all areas of clinical laboratory testing: chemistry, toxicology, hematology, urinalysis, immunohematology, hemostasis, diagnostic immunology, clinical microbiology, histocompatibility and molecular diagnostics. Students are instructed on state-of-the-art instrumentation and digital technology.

The New York State (NYS) Education Department mandates that all clinical laboratory scientists are licensed to work in a hospital laboratory. The knowledge obtained in our one-year classroom and hospital laboratory internship will qualify students to take the NYS exam for clinical laboratory science licensure. Students will receive their didactic study at New York Medical College and clinical laboratory training at one of the hospitals within the Westchester Medical Center Health Network.

CURRICULUM

- **Clinical Chemistry and Toxicology** – analyzes, identifies and quantitates various chemical substances found in body fluids, using the most advanced techniques and instrumentation.
- **Hematology and Urinalysis** – analyzes and quantitates cellular and non-cellular components of the blood and body fluids.
- **Immunohematology** – encompasses the classification of blood and its components using modern blood bank methods.
- **Hemostasis** – assesses the clotting processes in the body and identifies abnormal bleeding diseases.
- **Diagnostic Immunology** – evaluates the body's immune response to infection and antigenic substances.
- **Clinical Microbiology** – involves isolation and identification of bacteria, parasites, fungi and viruses, to assist the medical staff in the diagnosis and treatment of disease states.
- **Histocompatibility** – studies antigen-antibody reactions and HLA (human leukocyte antigen) testing to identify the matching verse rejection outcome for organ transplants.
- **Molecular Diagnostics** – encompasses common molecular techniques and methods, including nucleic acid extraction and characterization, direct probe hybridization, nucleic acid amplification (i.e., PCR and real-time PCR) and quantitation and DNA sequencing.
- **Management Lectures** – cover the knowledge of regulatory agencies, safety regulations and administrative skills to prepare the student for future management positions.

“The goal of the program is to educate a new generation of laboratory scientists and to help meet the increasing demand for qualified professionals in this exciting and rewarding field.”

– John T. Fallon III, M.D., Ph.D.
Chairman and Professor of the
Department of Pathology and Professor of Medicine

ACCREDITATION

New York Medical College is a graduate-level higher education institution, accredited by the Middle States Commission on Higher Education and chartered by the Regents of the State of New York. The Clinical Laboratory Scientist program is an approved NYS Education program and is currently pending final accreditation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

