

POST-BACCALAUREATE CERTIFICATE IN CHEMISTRY FOR MEDICAL LABORATORY SCIENCE

The online post-baccalaureate certificate in clinical chemistry for medical laboratory science is designed to provide the knowledge and hands-on skills needed to become a certified technologist in clinical chemistry. Students learn how to use chemistry to evaluate patient health, study DNA and examine tissue, along with developing laboratory procedures that help physicians make earlier, more precise patient diagnoses and determine treatment.

This certificate can be completed in as little as one year and allows students to qualify to sit for the Technologist in Chemistry (C) exam offered by national certifying agencies. Students who complete this certificate program learn to:

- Apply principles of traditional and molecular laboratory procedures to perform diagnostic analyses.
- Correlate laboratory and quality control data to assess patient test results.
- Apply knowledge of laboratory science principles as they relate to human disease diagnosis.
- Maintain a safe work environment.
- Comply with laboratory safety regulations and regulatory policies.
- Apply ethical decision making to issues related to clinical laboratory practice.

Students complete required courses either on a part-time or full-time basis. Courses in the major are designed to broaden the student's foundation in the sciences in preparation for the clinical phase of the program. All courses are taught online, with the exception of the clinical practicum. The clinical practicum is usually taken on a full-time basis upon completion of didactic coursework. Students are typically in a clinical laboratory eight hours per day (daytime hours), five days per week. Admitted students must be able to fulfill the necessary time requirement for the practicum.*

Visit the program website (<https://healthsciencesprograms.gwu.edu/programs/post-baccalaureate-certificate-in-clinical-chemistry-for-medical-laboratory-science-online/>) for additional program information.

*Clinical rotations, lasting between one to four weeks each, are completed at an approved clinical site.

REQUIREMENTS

The following requirements must be fulfilled: 19 credits in required courses, including the practicum.

Code	Title	Credits
Required		
MLS 4141	Immunology and Serology	

MLS 4145	Clinical Biochemistry I
MLS 4151	Molecular Diagnostics
MLS 4161	Clinical Biochemistry Practicum
MLS 4146	Clinical Biochemistry II
MLS 4158	Laboratory Management and Operations

Clinical rotations are completed at an approved clinical site and vary in length, lasting between 1 to 4 weeks each.