

# POST-BACCALAUREATE CERTIFICATE IN CHEMISTRY FOR MEDICAL LABORATORY SCIENCE (STEM)

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.\*

This is a STEM designated program.

Visit the program website (<https://smhs.gwu.edu/bulletin/smhs/certificate/chemistry-mls/>) for additional information.

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

## ADMISSIONS

Term Start: Summer - March 20

Degree and GPA Requirement:

2.5 GPA or above on a 4.0 scale

Prerequisites: Completed coursework: All required courses must be completed with a C grade (C- grades and lower do not transfer) or better at a regionally accredited institution of higher learning:

English Composition (3 credits)

College Algebra, Statistics, or higher (3 credits)

Combination of 30 semester hours of Biology and Chemistry coursework, including 16 hours of Chemistry

Additional Requirement:

Students who live outside of the Washington, D.C., metro area are required to secure a satisfactory clinical site at the time of admission.

Review the Criminal Background Check and Drug Screening Policies in the Health Sciences Programs Bulletin

Statement of Purpose: Applicants must include a 250–500 word essay describing your reasons for undertaking study at GW, your academic objectives, career goals, and related qualifications including collegiate, professional, and community activities relevant to your program of interest. Include any substantial accomplishments not already mentioned on the application form.

Recommendation Required: One (1) letter of recommendation

Prior academic records: Official transcripts are required from all colleges and universities attended (including via dual enrollment), whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Official transcripts must be forwarded in their original sealed envelopes or sent electronically directly from the institution.

If academic records are in a language other than English, a certified English language translation must be provided in addition to the original transcripts; translations alone will not be accepted.

Official transcripts from institutions outside the U.S. must be accompanied by an official transcript evaluation from an accredited independent evaluating agency. Please be sure you request a detailed evaluation that includes all course titles, credit hours, grades, U.S. degree equivalency, grade-point averages (GPA), and date of degree conferral. Please see the list of acceptable foreign credential evaluation services (<https://www.naces.org/members/>).

International Students: International students should check with individual programs regarding eligibility for visa sponsorship. Generally, online and hybrid programs are not eligible for student visa sponsorship from GW. This would include transfer students from any other institution with an existing visa.

Official transcripts from institutions outside the U.S. must be accompanied by an official transcript evaluation from an accredited independent evaluating agency. Please be sure you request a detailed evaluation that includes all course titles, credit hours, grades, U.S. degree equivalency, grade-point averages (GPA), and date of degree conferral. For a list of acceptable foreign credential evaluation services, please click here (<https://www.naces.org/members.php>).

Applicants who are not U.S. citizens are required to submit official test scores for either Test of English as a Foreign Language (TOEFL) or#Pearsons#Test of English (PTE), Academic the academic International English Language Testing System (IELTS) or the Duolingo English Test (DET). The following are the minimum scores for admission consideration:#TOEFL: 600 on paper based, 250 on computer-based, or 100 Internet-based, PTE: overall score of 68, IELTS: an overall band score of 7.0, with no individual band score below 6.0, or DET overall score of 120. \*Scores can be no older than 2 years.

International applicants who meet the following conditions may be considered for admission without submitting TOEFL, PTE or IELTS or DET scores:#They are a citizen of countries where English is the official language (as identified by GW ISO list of Exempt countries) OR; They hold at least a#bachelor#degree from a country where English is the official language as well as language of instruction OR; They hold at least a#bachelor#degree from an institution accredited by a U.S. regional accrediting agency.

**Supporting documents not submitted online should be mailed to:**

George Washington University

ATTN: Transcript Processing Center  
1415 W 22<sup>nd</sup> St.  
Suite 220  
Oak Brook, IL 60523

Documents may be submitted electronically  
to: [transcripts@hsprograms.gwu.edu](mailto:transcripts@hsprograms.gwu.edu).

**Contact for questions:**

[hsphora@gwu.edu](mailto:hsphora@gwu.edu)  
202-994-0384 (phone)  
Hours: 9:00 am to 5:00 pm, Monday through Friday

## REQUIREMENTS

Code	Title	Credits
<b>Required</b>		
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.