Medical laboratory scientists are educated in the theoretical and practical aspects of laboratory medicine. As vital members of the health care team, laboratory professionals provide information necessary for the diagnosis and treatment of disease. Medical laboratory science (MLS) is a challenging profession requiring precise and accurate evaluation techniques and keen problem-solving and judgment skills that apply the basic sciences to the clinical diagnosis of health and disease.

The medical laboratory profession recognizes specialized knowledge with categorical professional credentials. Consequently, the George Washington University offers bachelor’s degree students who have completed the necessary pre-requisites to obtain a certificate in the following disciplines: Hematology, Chemistry, Microbiology, or Blood Banking. All coursework is completed online while practicums are completed at an approved clinical site.

These certificates are analogous to the generalist certification at the baccalaureate level [e.g. MLS(ASCP)], but focus on one discipline in the medical laboratory. Students successfully completing the certificate program are eligible to sit for national certification exams. Individuals with categorical certificates would compete for jobs with baccalaureate individuals certified as generalists, but would be expected to work only in the discipline in which they are certified.

The GW MLS Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

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<th>Curricula</th>
<th>healthsciences.gwu.edu</th>
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<td>NAACLS • 5600 N. River Rd., Suite 720 Rosemont, IL 60018-5119 t 773-714-8880 • <a href="http://www.nacls.org">www.nacls.org</a></td>
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**POST-BACCALAUREATE CERTIFICATE IN BLOOD BANKING**
(17 CREDIT HOURS TOTAL)
(3 credits each, unless noted)
MLS 4118 Laboratory Operations (1 credit)
MLS 4140 Clinical Laboratory Management
MLS 4141 Immunology & Serology
MLS 4150 Immunohematology
MLS 4151 Molecular Diagnostics
MLS 4160 Blood Bank Practicum
MLS 4163 Clinical Immunology and Serology Practicum (1 credit)

**POST-BACCALAUREATE CERTIFICATE IN CHEMISTRY**
(19 CREDIT HOURS TOTAL)
(3 credits each, unless noted)
MLS 4118 Laboratory Operations (1 credit)
MLS 4141 Immunology & Serology
MLS 4145 Clinical Biochemistry I
MLS 4155 Clinical Biochemistry II (2 credits)
MLS 4151 Molecular Diagnostics
MLS 4161 Clinical Biochemistry Practicum (4 credits)
MLS 4140 Clinical Laboratory Management

**POST-BACCALAUREATE CERTIFICATE IN HEMATOLOGY**
(17 CREDIT HOURS TOTAL)
(3 credits each, unless noted)
MLS 4118 Laboratory Operations (1 credit)
MLS 4128 Hematology I (2 credits)
MLS 4129 Hematology II (2 credits)
MLS 4140 Clinical Laboratory Management
MLS 4141 Immunology & Serology
MLS 4151 Molecular Diagnostics
MLS 4162 Hematology and Hemostasis Practicum

**POST-BACCALAUREATE CERTIFICATE IN MICROBIOLOGY**
(19 CREDIT HOURS TOTAL)
(3 credits each, unless noted)
MLS 4118 Laboratory Operations (1 credit)
MLS 4114 Clinical Microbiology I (2 credits)
MLS 4115 Clinical Parasitology & Mycology (1 credit)
MLS 4124 Clinical Microbiology II (2 credits)
MLS 4140 Clinical Laboratory Management
MLS 4141 Immunology & Serology
MLS 4151 Molecular Diagnostics
MLS 4164 Clinical Microbiology Practicum (4 credits)

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

ADMISSIONS REQUIREMENTS
All applicants are required to complete an online application as well as submit the following supporting documents:

- Official transcripts from all previous academic institutions
- One letter of recommendation
- Current resume
- A statement of purpose
- Essential Functions & Clinical Site Verification Form

Admitted students may begin their course of study during the Spring, Summer, or Fall semester.

Official transcripts must demonstrate the following coursework was completed prior to admission (science coursework must include both lecture and ‘hands-on’ laboratory):

**Blood Banking**
Combination of 30 credit hours of Biology and Chemistry coursework.

**Chemistry**
Combination of 30 credit hours of Biology and Chemistry coursework; 16 credit hours must be completed in Chemistry.

Hematology
Combination of 30 credit hours of Biology and Chemistry coursework.

Microbiology
Combination of 30 credit hours of Biology and Chemistry coursework; 4 credit hours must be completed in General Microbiology.

COSTS AND FUNDING
Current information concerning tuition, fees, and other estimated expenses can be found at [colonialcentral.gwu.edu](http://colonialcentral.gwu.edu).

Students who are on active-duty are eligible for a special military discount tuition rate. Please contact the program office for further information.

REQUIRED TESTS
The program does not require the submission of an entrance exam. Applicants whose native language is not English or who are not citizens of countries where English is the official language are required to submit scores from either TOEFL or IELTS. Please visit the Admissions website for more detailed information.

Stephanie Serven, M.Ed.
Senior Academic Advisor
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Washington, DC 20037
Phone: 202-994-7732
Fax: 202-994-0870
sserven@gwu.edu

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