

BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN MEDICAL LABORATORY SCIENCE (STEM)

Medical laboratory science combines medicine, basic sciences, and clinical sciences. Professionals in the field investigate and determine the causes of disease using the latest biomedical instruments and molecular techniques to perform both routine and complex testing.

The bachelor of science in health sciences (BSHS) with a major in medical laboratory science is a degree completion program offered in two formats: online or hybrid study.

- BSHS in medical laboratory science—Fully online. The online program is for students who have successfully completed a medical laboratory technician (MLT) program within six months of application and/or are currently board certified MLTs.
- BSHS in medical laboratory science—Hybrid. The hybrid program is for students who have completed at least 45 college credits or who have earned an associate’s degree along with the required prerequisite science and general education courses.

Second bachelor’s degree program

The BSHS with a major in medical laboratory science program is offered in both forms as a second bachelor’s degree to students who already hold a baccalaureate degree from a regionally accredited college or university with the required prerequisite and general education coursework. For the online program, students also must have completed a medical laboratory technician (MLT) program and currently be board certified MLTs (or completed an MLT program within six months of application).

All BSHS in medical laboratory science programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) (<http://www.naacls.org/>).

This is a STEM designated program.

Visit the program website (<https://smhs.gwu.edu/bulletin/smhs/undergraduate-programs/bshs-medical-laboratory-science/>) for additional information.

ADMISSIONS

Admission Deadlines

Fall: July 20
 Spring: December 1
 Summer: March 20

Standardized SAT/ACT optional test scores:

One letter of recommendation from an academic instructor who can strongly attest to your academic ability, and/or an Individual who served in a supervisory capacity for you, and who can strongly attest to your work ethic

Prior academic records 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. Transcripts must be forwarded in their original sealed envelopes. Official transcript may also be sent electronically directly from the institution.

Applicants may receive credit for college-level coursework through International Baccalaureate (IB) or College Board Advanced Placement (AP) examinations. Official score results must be forwarded directly from the College Board. Please refer to GW Undergraduate Admissions (<https://undergraduate.admissions.gwu.edu/>) for information on maximum credits, minimum scores, and GW course equivalents for AP and IB credits.

Non-traditional credit sources may be considered on a case-by-case basis (i.e. military coursework, credit-by-exam, and non-college based health programs). Information on transfer credit eligibility may be found in the Bulletin under Regulations (see Transfer Credit/Advanced Standing for Undergraduates), including minimum letter grade requirements

Statement of purpose All applicants are required to submit a 250–500 word essay describing your reasons for undertaking study at the George Washington University. Focus on your academic objectives, career goals and related qualifications, including collegiate, professional, and extra-curricular activities relevant to your program of interest. Include any substantial accomplishments not already mentioned on the application form as well as obstacles you have overcome that influenced your desire to pursue this program of study.

Additional requirements The program of study consists of a hybrid format offered at VSTC or a fully online format for applicants with MLT certification, MLT work experience, or who have graduated within 6 months of an accredited MLT program. Applicants with MLT certification are required to submit verification of national (ASCP, AMT, or AAB) MLT certification in order to be considered for the fully online format.

All students must meet Essential Functions requirements, and successfully meet the criminal background check and drug screen requirements. (<https://smhs.gwu.edu/academics/health-sciences/academics/admissions/background-checks-and-drug-screenings>)

A resumé or curriculum vitae is required.

A minimum cumulative GPA of 2.70 and a science GPA of 2.5

The minimum acceptable grade is C for coursework to be applied toward an undergraduate degree (grades of C- and below do not transfer to GW SMHS programs)

Students who live outside of the Washington DC Metro Area are required to secure a satisfactory clinical site at the time of admission.

Successful completion of a criminal background check and a drug screen through Certiphi Screening, a third-party vendor, are required of all admitted clinical students in their first semester. Students are responsible for fees associated with these screens.

Prerequisites At least 45 semester hours of college with a minimum cumulative GPA of 2.7 and science GPA of 2.5 from a regionally accredited institution of higher learning. Students applying under a Guaranteed Admission Agreement must have a cumulative GPA of 2.75. All should include the following coursework:

English Composition (6 credits)

Biology (lecture and 'hands-on' lab) (8 credits)

Microbiology (lecture and 'hands-on' lab) (4 credits)

Chemistry (lecture and 'hands-on' lab) (8 credits)

College Mathematics (algebra, statistics, or higher - 3 credits)

Humanities (3 credits)*

Social Sciences (6 credits)

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 Pearson's 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 22nd St.
Suite 220
Oak Brook, IL 60523

Documents may be submitted electronically to: transcripts@hsprograms.gwu.edu.

Contact for questions:

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

REQUIREMENTS

The following requirements must be fulfilled: 120 credits, including a minimum of 60 credits in required courses completed at GW and up to 60 transfer credits in courses taken elsewhere and through SMHS Guaranteed Admission Agreements partnerships.

All General Education coursework must be completed prior to enrollment in the program.

Code	Title	Credits
General Education		
6 credits in English composition		
3 credits in quantitative reasoning (college algebra, statistics, or higher)		
4 credits in scientific reasoning (microbiology with lab) ^{1,2}		
3 credits in critical thinking in the humanities		
6 credits in critical thinking in the social sciences		
8 credits in general biology I and II ^{1,2}		
8 credits in chemistry I and II ^{1,2}		

7 credits in elective courses

Required courses that may be transferred in or taken at GW

3 credits in organic chemistry or biochemistry¹

12 elective credits

Core courses in the major, which must be taken at GW

Required for both fully online and hybrid options:

MLS 2007W	Microbes and Society
MLS 3001W	Professional Ethics for Medical Laboratory Scientists

MLS 4141 Immunology and Serology

MLS 4158 Laboratory Management and Operations

MLS 4145 Clinical Biochemistry I

MLS 4146 Clinical Biochemistry II

MLS 4150 Immunohematology

MLS 4151 Molecular Diagnostics

MLS 4130 Hematology I

MLS 4131 Hematology II

MLS 4116 Clinical Bacteriology I

MLS 4117 Clinical Bacteriology II

MLS 4119 Parasitology, Mycology, and Virology

MLS 4159 Capstone Seminar

Required for the fully online option only:

MLS 3000 Clinical Laboratory Mathematics

MLS 4136 Clinical Experience I

MLS 4137 Clinical Experience II

MLS 4138 Clinical Experience III

MLS 4139 Clinical Experience IV

11 credits in elective courses.

Required for the hybrid option only:

MLS 4246 Clinical Biochemistry Laboratory

MLS 4251 Molecular Diagnostics Laboratory

MLS 4230 Hematology Laboratory

MLS 4250 Immunohematology Laboratory

MLS 4219 Parasitology, Mycology, and Virology Laboratory

MLS 4216 Clinical Bacteriology Laboratory

MLS 4160 Blood Bank Practicum

MLS 4161 Clinical Biochemistry Practicum

MLS 4162 Hematology Practicum

MLS 4164 Clinical Microbiology Practicum

MLS 4165 Urinalysis Practicum

MLS 4166 Coagulation Practicum

¹Medical laboratory technicians (MLT) may receive transfer credit for biological sciences, general microbiology, general chemistry, and organic chemistry/biochemistry courses.

²Hands-on lab required, online lab is not acceptable.

SECONDARY BACHELOR'S

This is a degree completion program offered in fully online and hybrid online and on-campus formats¹.

The following requirements must be fulfilled: 120 credits, at least 60 of which must be taken at GW.

Code	Title	Credits
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General education and prerequisite courses

3 credits in English composition

3 credits in critical thinking in the humanities

6 credits in critical thinking, quantitative reasoning, or scientific reasoning in the social sciences

8 credits in general biology with lab^{2,3}

8 credits in general chemistry with lab^{2,3}

3 credits in quantitative reasoning (algebra or statistics at the college level or above)

4 credits in scientific reasoning (microbiology with lab)^{2,3}

Required and elective courses that can be transferred in or taken at GW

3 credits in organic chemistry or biochemistry²

22 credits in elective courses

Core courses for the major that must be taken at GW

Required for both the fully online and hybrid program options:

MLS 2007W	Microbes and Society
MLS 3001W	Professional Ethics for Medical Laboratory Scientists
MLS 4141	Immunology and Serology
MLS 4158	Laboratory Management and Operations
MLS 4145	Clinical Biochemistry I
MLS 4146	Clinical Biochemistry II
MLS 4150	Immunochemistry
MLS 4151	Molecular Diagnostics
MLS 4130	Hematology I
MLS 4131	Hematology II
MLS 4116	Clinical Bacteriology I
MLS 4117	Clinical Bacteriology II
MLS 4119	Parasitology, Mycology, and Virology
MLS 4159	Capstone Seminar

For fully online option only:

MLS 3000	Clinical Laboratory Mathematics
MLS 4136	Clinical Experience I
MLS 4137	Clinical Experience II
MLS 4138	Clinical Experience III
MLS 4139	Clinical Experience IV

11 credits in elective courses.

Required for the hybrid program option only:

MLS 4246	Clinical Biochemistry Laboratory
MLS 4251	Molecular Diagnostics Laboratory
MLS 4230	Hematology Laboratory
MLS 4250	Immunochemistry Laboratory
MLS 4219	Parasitology, Mycology, and Virology Laboratory
MLS 4216	Clinical Bacteriology Laboratory
MLS 4160	Blood Bank Practicum
MLS 4161	Clinical Biochemistry Practicum

MLS 4162	Hematology Practicum
MLS 4164	Clinical Microbiology Practicum
MLS 4165	Urinalysis Practicum
MLS 4166	Coagulation Practicum

¹The fully online program option is for students who have successfully completed a medical laboratory technician (MLT) program within six months of application and/or are currently board certified MLTs. The hybrid option is for students who have completed at least 45 college credits or who have earned an associate's degree along with the required prerequisite science and general education courses.

²Medical laboratory technicians (MLTs) can receive transfer credit for biological sciences, general microbiology, general chemistry, and organic chemistry/biochemistry courses.

³Hands-on lab required. An online lab is not acceptable.

⁴Alternative electives can be selected from any undergraduate CERT, HSCI, or MLS courses, or others approved by the program director. Advanced standing from eligible transfer credit may also be considered.

COMBINED PROGRAM

Combined program

- Dual Bachelor of Science in Health Sciences with a major in medical laboratory sciences and Master of Science in Health Sciences in the field of molecular diagnostic sciences (<http://bulletin.gwu.edu/medicine-health-sciences/undergraduate-programs/dual-bshs-mls-mshs-mds/>)
- Dual Secondary Bachelor of Science in Health Sciences with a major in medical laboratory sciences and Master of Science in Health Sciences in the field of molecular diagnostic sciences (<http://bulletin.gwu.edu/medicine-health-sciences/undergraduate-programs/secondary-bshs-medical-laboratory-science-molecular-diagnostic-sciences/>)