



A.S. in Public Health Sciences



B.S.H.S. in Medical Genetics and Molecular Biology and  
M.S.H.S. in Clinical Microbiology  
(Dual Degree)  
2024-25 Catalog Year

CREDITS	MONTGOMERY COLLEGE Requirements for Associate's Degree	GEORGE WASHINGTON UNIVERSITY Requirements for Bachelor's Degree
3	ENGL 101 - Introduction to College Writing*	Qualifies towards 3 of 6 credits in English Composition
4	MATH 150 - Elementary Applied Calculus I (MATF)	Qualifies towards 3 credits in College Mathematics
4	BIOL 150 - Principles of Biology I (NSLD)	Advanced Standing
3	HLTH 160 - The Science and Theory of Health	Advanced Standing
3	English Foundation (ENGF)** ENGL102 or ENGL103	Qualifies towards 3 of 6 credits in English Composition
4	BIOL 212 - Human Anatomy and Physiology I (NSLD)	Qualifies towards 4 of 8 credits of Biology with lab*
4	CHEM 131 - Principles of Chemistry I	Qualifies towards 4 of 8 credits of Chemistry with lab**
3	PSYC 100 - General Psychology (BSSD)	Qualifies towards 3 of 6 credits of Social Sciences
3	Arts Distribution (ARTD)	Advanced Standing
4	BIOL 213 - Human Anatomy and Physiology II	Qualifies towards 4 of 8 credits of Biology with lab*
4	CHEM 150 - Essentials of Organic and Biochemistry	Qualifies towards 3 credits of Organic Chemistry/Biochemistry+
3	COMM 108 or COMM 112 (GEEL)	Advanced Standing
3	HLTH 225 - Introduction to Health Behaviors	Advanced Standing
3	SOCY 100 - Introduction to Sociology (BSSD)	Qualifies towards 3 of 6 credits of Social Sciences
4	BIOL 210 - Microbiology	Qualifies towards 4 credits of Microbiology with lab*+
4	BIOL 222 - Principles of Genetics	Advanced Standing
1	HLTH 299 - Capstone in Public Health Sciences	Advanced Standing
3	Humanities Distribution (HUMD)	Qualifies towards 3 credits in Humanities
<b>60</b>	<b>TOTAL CREDITS TRANSFERRED</b>	
<b>REMAINING GEORGE WASHINGTON UNIV DEGREE REQUIREMENTS RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE</b>		
	MLS 2007W: Microbes & Society	3
	MLS 3001W: Professional Ethics in MLS	3
	MLS 6141: Advanced Immunology and Serology	3
	MLS 6158: Advanced Lab Management and Operations	3
	MLS 3000: Lab Math	3
	CERT 3005: Current Topics	3
	MLS 4170: Molecular Biology	3
	MLS 4171: Human Genetics	3
	MLS 4217: Molecular Techniques	3
	MLS 4242: Applications of Molecular Testing	3
	MLS 4252: Applications of Molecular Testing Lab (in person)	2
	MLS 6151: Advanced Molecular Diagnostics	3
	MLS 4251: Molecular Diagnostics Laboratory (in person)	1
	MLS 4266: Molecular Diagnostics Practicum	6
	MLS 4172: Capstone Seminar (Completed during final semester)	3
	Elective	15
	<b>TOTAL CREDITS REMAINING AT GEORGE WASHINGTON UNIVERSITY</b>	<b>60</b>

**MONTGOMERY COLLEGE NOTES**

\*ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103 or HLTH elective.

**GEORGE WASHINGTON UNIVERSITY NOTES**

Admission requirements:

- 6 credits English Composition
- 3 credits Mathematics
- 3 credits Critical Thinking in the Humanities
- 6 credits Critical Thinking in the Social Sciences
- 8 credits of Biology with lab\*
- 8 credits of Chemistry with lab\*#

\*Must include in-person lab

# This program does not meet the GW admission requirement of 8 credits of Chemistry with lab. Students must complete a second General Chemistry with lab course, or equivalent, to meet the 8 credit requirement.

+ Organic Chemistry/Biochemistry and Microbiology with lab is not required for admission, but is required to graduate. Students are recommended to take this course, when possible, before attending GW and transfer the credits.

Additional program requirements include 3 credits of Biotechnology. This is required to graduate from GW but is not an admission requirement. Students are recommended to take this course, when possible, before attending GW and transfer the credits.

Dual degree students must graduate from the BSHS program with a 3.0 or higher to remain eligible to enter the graduate version of the program. During the BSHS portion of the program, students take 3 graduate MLS courses in lieu of 3 undergraduate MLS courses. Upon successful completion of the BSHS, students transition into the MSHS degree. The 3 graduate courses taken during the BSHS portion of the program are applied toward the MSHS degree. The MSHS is 36 credit hours. Students complete 9 credits as an undergraduate student and the remaining 27 as a graduate student.

Admission/Eligibility requirements:

- To be eligible for transfer, courses must be completed with a grade of C or higher; C- will not transfer.
- Coursework meeting the minimum grade requirement not applied toward specific General Education requirements will be applied toward the 19 credit Advanced Standing requirement.
- Graduated with a cumulative GPA in the applicable associate degree of 3.0 or greater and science GPA of 2.5 in prerequisite science courses.
- If additional transcripts exist, a cumulative GPA that includes all institutions must be a minimum of 3.0.
- If a science prerequisite is repeated, all grades will be factored into the GPA.
- AP/IB scores may be accepted for credit toward General Education or Advanced Standing credits. Refer to <https://undergraduate.admissions.gwu.edu/bringing-credits-gw> for details. GW does not accept AP credit for English Composition.
- Learn more about the program: <https://smhs.gwu.edu/academics/health-sciences/academics/guaranteed-admission-agreements>