

BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN MEDICAL GENETICS AND MOLECULAR BIOLOGY, GENERAL STUDIES CONCENTRATION

Code	Title	Credits
The following requirements must be fulfilled: 120 credits, including 45 to 60 transfer credits to satisfy the University General Education and advanced standing requirements; and a minimum of 60 credits taken at GW.		
University General Education Requirement		
3 credits in critical thinking in the humanities.		
6 credits in critical thinking, quantative reasoning, or scientific reasoning in the social sciences.		
3 credits in quantitative reasoning (college algebra, statistics, or higher)		
6 credits of English composition		
A course with an approved oral communication component. This requirement is satisfied by completing CERT 3005 in the required major curriculum. ¹		
Writing in the disciplines (WID) coursework satisfied by MLS 3001W and (MLS 2007W or HSCI 2112W or HSCI 4112W) program requirements. ¹		
Program prerequisites		
8 credits in general biology I and II with lab		
8 credits in general chemistry with lab		
3 credits in organic chemistry, clinical chemistry or biochemistry ²		
4 credits in microbiology with lab ²		
3 credits in biotechnology ²		
16 credits in elective and/or additional required courses		
Core requirements for the major that must be taken at GW		
CERT 3005	Current Topics in Biomedical Sciences	
MLS 3000	Clinical Laboratory Mathematics	
MLS 3001W	Professional Ethics for Medical Laboratory Scientists	
MLS 4141	Immunology and Serology	
MLS 4151	Molecular Diagnostics	

MLS 4158	Laboratory Management and Operations
MLS 4170	Introduction to Molecular Biology
MLS 4171	Human Genetics
MLS 4172	Molecular Diagnostics Capstone
MLS 4217	Molecular Techniques
MLS 4242	Applications of Molecular Testing
MLS 4266	Molecular Diagnostics Practicum
And one course selected from the following:	
MLS 2007W	Microbes and Society
HSCI 2112W	Writing in the Health Sciences
HSCI 4112W	Research and Writing in Health Sciences
Additional required courses for the hybrid program option only	
MLS 4251	Molecular Diagnostics Laboratory
MLS 4252	Applications of Molecular Testing Laboratory

¹This requirement is fulfilled at GW post matriculation.

²This requirement can be fulfilled with transfer credit or by completing the course at GW.

Code	Title	Credits
General studies concentration requirements		
Hybrid program: 15 credits in selected Clinical Embryology and Reproductive Technology (CERT), Health Sciences Programs (HSCI), or Medical Laboratory Science (MLS) courses.		
Online program: 18 credits in selected CERT, HSCI, or MLS courses.		