## BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN CLINICAL EMBRYOLOGY AND ASSISTED REPRODUCTIVE TECHNOLOGY (STEM), MOLECULAR BIOLOGY CONCENTRATION

Code	Title	Credits		
This is a degree completion program offered in fully online and hybrid online and on-campus formats. <sup>1</sup>				
Students must complete 120 credits consisting of 45 to 60 transfer credits to satisfy University General Education and program- specific prerequisite requirements and a minimum of 60 credits taken at GW.				
University General Education Requirement				
3 credits in critical thir	iking in the humanities			
6 credits in critical thir reasoning in the social	nking, quantative reasoning, or scientific I sciences			
3 credits in quantitativ higher)	re reasoning (college algebra, statistics, or			
3 credits in English co	mposition			
A course with an approven a course with an approven a course with an approxement is satisfier major curriculum. <sup>5</sup>	oved oral communication component. This d by completing CERT 3005 in the required	s d		
3 credits in quantitativ statistics).	re reasoning (must be in mathematics or			
3 credits in scientific re physical laboratory sci requirement for 8 cred in microbiology with la	easoning (must be in natural and/or iences). Satisfied with the prerequisite dits in general chemistry with lab or 4 credi ab.	ts		
Writing in the disciplin MLS 2007W and MLS	nes (WID) coursework satisfied by 3001W program requirements.			
Program prerequis	ites			
8 credits in general bio	ology I and II <sup>2,3</sup>			
8 credits in chemistry	l and II <sup>2,3</sup>			
4 credits in microbiolc	pgy with lab <sup>2,3</sup>			
3 credits in organic ch	emistry or biochemistry <sup>2,6</sup>			
22 credits transferred	in as elective courses. <sup>4,6</sup>			
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 4116	Clinical Bacteriology I
MLS 4117	Clinical Bacteriology II
MLS 4119	Parasitology, Mycology, and Virology
MLS 4130	Hematology I
MLS 4131	Hematology II
MLS 4141	Immunology and Serology
MLS 4145	Clinical Biochemistry I
MLS 4146	Clinical Biochemistry II
MLS 4150	Immunohematology
MLS 4151	Molecular Diagnostics
MLS 4158	Laboratory Management and Operations
MLS 4159	Capstone Seminar
Required for the fully o	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
And 11 credits in elect	ive courses.
Required for the hybri	d program option only:
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
MLS 4216	Clinical Bacteriology Laboratory
MLS 4219	Parasitology, Mycology, and Virology Laboratory
MLS 4230	Hematology Laboratory

Code	Title	Credits
MLS 4251	Molecular Diagnostics Laboratory	
MLS 4250	Immunohematology Laboratory	
MLS 4246	Clinical Biochemistry Laboratory	

Molecular biology concentration requirements

Required		
MLS 4170	Introduction to Molecular Biology	
MLS 4172	Molecular Diagnostics Capstone	
MLS 4217	Molecular Techniques	
MLS 4242	Applications of Molecular Testing	
MLS 4266	Molecular Diagnostics Practicum	
MLS 4251	Molecular Diagnostics Laboratory	
Electives		
4 to 9 credits in electives courses.		