SECONDARY BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN CLINICAL EMBRYOLOGY AND ASSISTED REPRODUCTIVE TECHNOLOGY, GENERAL STUDIES CONCENTRATION

Code	Title	Credits
-	completion program offered in fully online nd on-campus formats. ¹	e and
	omplete 120 credits consisting of 45 to 60 v University General Education and progra	
-	isite requirements and a minimum of 60 c	
University Ger	neral Education Requirement	
3 credits in critic	cal thinking in the humanities	
6 credits in critic reasoning in the	cal thinking, quantative reasoning, or scient e social sciences	ntific
3 credits in quan higher)	ntitative reasoning (college algebra, statis	tics, or
3 credits in Engli	ish composition	
	n approved oral communication compone atisfied by completing CERT 3005 in the r n. ⁵	
3 credits in quan statistics).	ntitative reasoning (must be in mathematic	cs or
physical laborate	ntific reasoning (must be in natural and/or ory sciences). Satisfied with the prerequis 8 credits in general chemistry with lab or with lab.	ite
-	sciplines (WID) coursework satisfied by d MLS 3001W program requirements.	
Program prere	equisites	
8 credits in gene	eral biology I and II ^{2,3}	
8 credits in chem	nistry I and II ^{2,3}	
4 credits in micro	obiology with lab ^{2,3}	
3 credits in orga	nic chemistry or biochemistry ^{2,6}	
22 credits transf	ferred in as elective courses. ^{4,6}	
Core courses f	or the major that must be taken at G	w
Required for bot	th the fully online and hybrid program opt	ions:

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 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 elective courses.			
Required for the hybrid	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	

General studies concentration requirements

11 to 21 credits in Clinical Embryology and Reproductive Technology (CERT), Health Sciences Programs (HSCI), and Medical Laboratory Science (MLS) courses.

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 Clinical Embryology and Reproductive Technology (CERT), Health Sciences Programs (HSCI), and Medical Laboratory Science (MLS) courses courses, or others approved by the program director. Advanced standing from eligible transfer credit also can be considered.

⁵This requirement is completed at GW post matriculation.

⁶This requirement can be completed with transfer credit or at GW.