## SECONDARY BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN MEDICAL GENETICS AND MOLECULAR BIOLOGY, ASSISTED REPRODUCTIVE TECHNOLOGY 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 thi	inking in the humanities.			
6 credits in critical thi reasoning in the socia	inking, quantative reasoning, or scientific al sciences.			
3 credits in quantitati higher)	ive reasoning (college algebra, statistics, or			
6 credits of English co	omposition			
	roved oral communication component. This ed by completing CERT 3005 in the require			
<b>e</b> 1	ines (WID) coursework satisfied by S 2007W or HSCI 2112W or HSCI 4112W) ts. <sup>1</sup>			
Program prerequi	sites			
8 credits in general b	iology I and II with lab			
8 credits in general c	hemistry with lab			
3 credits in organic c	hemistry, clinical chemistry or biochemistry	2		

4 credits in microbiology with lab  $^2$ 

3 credits in biotechnology<sup>2</sup>

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		

<sup>1</sup>This requirement is fulfilled at GW post matriculation.

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

Code	Title	Credits		
Assisted reproductive technology concentration requirements				
CERT 3004	Endocrinology for Health Sciences			
CERT 4010	Clinical Human Embryology			
CERT 4012	Clinical Human Andrology			
CERT 4014	Human Reproductive Cryobiology			
MLS 4995	Independent Research in Biomedical Laboratory Science			