

# SECONDARY BACHELOR OF SCIENCE IN HEALTH SCIENCES IN CLINICAL EMBRYOLOGY AND ASSISTED REPRODUCTIVE TECHNOLOGY

The following requirements must be fulfilled: 120 credits, including a minimum of 60 credits in required core courses that must be completed at GW and up to 60 transfer credits in courses taken elsewhere.

Code	Title	Credits
<b>General Education and prerequisite courses</b>		
3 credits in English composition		
8 credits in general biology I and II		
3 credits in quantitative reasoning (college algebra, statistics, or higher)		
6 credits in social sciences		
3 credits in humanities		
37 credits in elective courses and/or additional required courses		
<b>Required and elective courses that can be transferred in or taken at GW</b>		
3 credits in microbiology (lecture)		
1 credit in microbiology for health sciences laboratory (lab)		
3 credits in organic or biochemistry (if taken at GW, MLS 3003 Biochemistry for Health Sciences)		
3 credits in introduction to biotechnology for health sciences		
<b>Core courses for the major that must be taken at GW</b>		
CERT 3004	Endocrinology for Health Sciences	
CERT 3005	Current Topics in Biomedical Sciences	
CERT 4010	Clinical Human Embryology	
CERT 4011	Human Embryology Laboratory	
CERT 4012	Clinical Human Andrology	
CERT 4013	Human Andrology Laboratory	
CERT 4014	Human Reproductive Cryobiology	
MLS 2007W	Microbes and Society	
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 4171	Human Genetics
MLS 4251	Molecular Diagnostics Laboratory

## Optional concentration

Students who wish to complete a concentration in either molecular biology or microbiology must take the required courses and number of elective credits listed below.

Molecular biology concentration:

MLS 4170	Introduction to Molecular Biology
MLS 4172	Molecular Diagnostics Capstone
MLS 4217	Molecular Techniques
MLS 4242	Applications of Molecular Testing
MLS 4252	Applications of Molecular Testing Laboratory
MLS 4266	Molecular Diagnostics Practicum

1 credit in elective courses

Microbiology Concentration:

MLS 2005	Plagues, Pandemics, and Epidemics
MLS 4116	Clinical Bacteriology I
MLS 4117	Clinical Bacteriology II
MLS 4119	Parasitology, Mycology, and Virology
MLS 4216	Clinical Bacteriology Laboratory
MLS 4219	Parasitology, Mycology, and Virology Laboratory
MLS 4164	Clinical Microbiology Practicum

5 credits in elective courses