

# BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN MEDICAL GENETICS AND MOLECULAR BIOLOGY, ASSISTED REPRODUCTIVE TECHNOLOGY CONCENTRATION

Code	Title	Credits
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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, quantitative 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.<sup>1</sup>

Writing in the disciplines (WID) coursework satisfied by MLS 3001W and (MLS 2007W or HSCI 2112W or HSCI 4112W) program requirements.<sup>1</sup>

## 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<sup>2</sup>

4 credits in microbiology with lab<sup>2</sup>

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
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MLS 3000	Clinical Laboratory Mathematics
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MLS 3001W	Professional Ethics for Medical Laboratory Scientists
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MLS 4141	Immunology and Serology
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MLS 4151	Molecular Diagnostics
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MLS 4158	Laboratory Management and Operations
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MLS 4170	Introduction to Molecular Biology
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MLS 4171	Human Genetics
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MLS 4172	Molecular Diagnostics Capstone
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MLS 4217	Molecular Techniques
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MLS 4242	Applications of Molecular Testing
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MLS 4266	Molecular Diagnostics Practicum
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And one course selected from the following:

MLS 2007W	Microbes and Society
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HSCI 2112W	Writing in the Health Sciences
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HSCI 4112W	Research and Writing in Health Sciences
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Additional required courses for the hybrid program option only

MLS 4251	Molecular Diagnostics Laboratory
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MLS 4252	Applications of Molecular Testing Laboratory
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<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.

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## Assisted reproductive technology concentration requirements

CERT 3004	Endocrinology for Health Sciences
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CERT 4010	Clinical Human Embryology
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CERT 4012	Clinical Human Andrology
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CERT 4014	Human Reproductive Cryobiology
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MLS 4995	Independent Research in Biomedical Laboratory Science
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