

DEPARTMENT OF ALLIED HEALTH SCIENCES
DIAGNOSTIC GENETIC SCIENCES PROGRAM

(Sample Sequence of Courses^{§#})
CATALOG YEAR Beginning Fall 2021

YEAR ONE

FALL

CHEM 1124Q or 1127Q General Chemistry I	4
## ENGL 1007, 1010 or 1011	4
## MATH 1060Q, 1125Q, or above	3-4
### General Education (CA1)	3
UNIV 1800 FYE (not required, but strongly recommended)	<u>1</u>

15-16 credits

SPRING

CHEM 1125Q or 1128Q General Chemistry II	3-4
BIOL 1107 General Biology I	4
### General Education (CA2)	3
### General Education (CA4)	3
Elective	<u>3</u>

16-17 credits

YEAR TWO

FALL

CHEM 2241 or 2443 Organic Chemistry	3
STAT 1000Q or 1100Q Statistics	4
MCB 2400 or 2410 Human Genetics/Genetics	3
### Elective (suggested CHEM 2242, if taking CHEM 2241)	1-3
### General Education (CA4-int)	<u>3</u>

14-16 credits

SPRING

MCB 2610 Fund. of Microbiology	4
### General Education E course	3
### General Education (CA2)	3
### General Education (CA1)	3
### General Education W course	<u>3</u>

16 credits

YEAR THREE

Admission into the junior/senior year requires separate application

FALL

AH 2001 Medical Terminology	2
AH 3021 Environment, Genetics, and Cancer	3
AH 3121 Immunology	3
DGS 3100 Cytogenetic Technologies	3
Elective	<u>3</u>

14 credits

SPRING

DGS 4234W Dx. Molecular Technologies	3
DGS 4235 Lab. Molecular Diagnostics	2
MLSC 4500 Lab. Operations	2
Related cognate	3
Related cognate	<u>3</u>

13 credits

YEAR FOUR

FALL

AH 4241 Research for the Health Prof.	2
DGS 4236 Case Studies Molecular Path	1
Related cognate	3
Related cognate	3
Elective	3
Elective	<u>3</u>

15 credits

SPRING (Clinical Affiliation - January 2 – May 15)

DGS 4402 Spec Prep, Nuc. Acid Isolation	4
DGS 4503 Amplification Methods	6
DGS 4604 Sequencing and Analysis	3
DGS 4850 Investigative Topics	1-3
(or DGS 4997 Honors Research)	
<i>One of the following elective courses:</i>	<u>2</u>
DGS 4510 <i>In Situ</i> Hybridization Methods	
DGS 4512 Cloning Techniques	
DGS 4513 Blotting Techniques	
DGS 4515 Mol. Applications in Microbiology	

16-18 credits

Total credits depend upon electives selected; a minimum of **120 credits are required for graduation**

[§]This plan of study is a sample. Actual plan of study subject to change based on advising and student goals.

[#]This plan assumes the **foreign language** requirement is completed prior to admission to the university. If a language is required, students may elect to take these courses as electives.

***W course requirement:** Students are required to take two “W” skill coded courses. DGS 4234W satisfies the “W” in the major. Students **MUST** take the second “W” as a general education or elective.

Please consult with your academic advisor prior to registering for Q courses.

^{##} These courses need not be taken in the semester indicated; however it is strongly recommended that they be completed prior to the junior year.