

DEPARTMENT OF ALLIED HEALTH SCIENCES  
 DIAGNOSTIC GENETIC SCIENCES PROGRAM  
 (Sample Sequence of Courses<sup>§#</sup>)  
 CATALOG YEAR Beginning Fall 2021

**YEAR ONE**

<b>FALL</b>		<b>SPRING</b>			
CHEM 1124Q or 1127Q	General Chemistry I	4	CHEM 1125Q or 1128Q	General Chemistry II	3-4
## ENGL 1007		4	BIOL 1107	General Biology I	4
## MATH 1060Q, 1125Q, or above		3-4	### General Education (CA2)		3
### General Education (CA1)		3	### General Education (CA4)		3
UNIV 1800 FYE (not required, but strongly recommended)		<u>1</u>	Elective		<u>3</u>
		15-16 credits			16-17 credits

**YEAR TWO**

<b>FALL</b>		<b>SPRING</b>			
CHEM 2241 or 2443	Organic Chemistry	3	MCB 2610	Fund. of Microbiology	4
STAT 1000Q or 1100Q	Statistics	4	### General Education E course		3
MCB 2400 or 2410	Human Genetics/Genetics	3	### General Education (CA2)		3
### Elective (suggested CHEM 2242, if taking CHEM 2241)		1-3	### General Education (CA1)		3
### General Education (CA4-int)		<u>3</u>	### General Education W course		<u>3</u>
		14-16 credits			16 credits

**YEAR THREE**

Admission into the junior/senior year requires separate application

<b>FALL</b>		<b>SPRING</b>			
AH 2001	Medical Terminology	2	DGS 4234W	Dx. Molecular Technologies	3
AH 3021	Environment, Genetics, and Cancer	3	DGS 4235	Lab. Molecular Diagnostics	2
AH 3121	Immunology	3	MLSC 4500	Lab. Operations	2
DGS 3100	Cytogenetic Technologies	3	Related cognate		3
Elective		<u>3</u>	Related cognate		<u>3</u>
		14 credits			13 credits

**YEAR FOUR**

<b>FALL</b>		<b>SPRING (Clinical Affiliation - January 2 – May 15)</b>			
AH 4241	Research for the Health Prof.	2	DGS 4402	Spec Prep, Nuc. Acid Isolation	4
DGS 4236	Case Studies Molecular Path	1	DGS 4503	Amplification Methods	6
Related cognate		3	DGS 4604	Sequencing and Analysis	3
Related cognate		3	DGS 4850	Investigative Topics	1-3
Elective		3	(or DGS 4997 Honors Research)		
Elective		<u>3</u>	One of the following elective courses:		<u>2</u>
		15 credits	DGS 4510	In Situ 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**

<sup>§</sup>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.