

**UNIVERSITY OF CONNECTICUT
DEPARTMENT OF ALLIED HEALTH SCIENCES
DIAGNOSTIC GENETIC SCIENCES PROGRAM
(Sample Sequence of Courses^{§#})
CATALOG YEAR Beginning Fall 2016**

YEAR ONE

FALL		SPRING	
CHEM 1124Q or 1127Q	General Chemistry I	4	
## ENGL 1010 or 1011		4	CHEM 1125Q or 1128Q
## MATH 1060Q, or above		3-4	General Chemistry II
### General Education		3	General Biology I
UNIV 1800 FYE (not required, but strongly recommended)		<u>1</u>	### General Education
		15-16 credits	### General Education
			<u>3</u>
			13-14 credits

YEAR TWO

FALL		SPRING	
CHEM 2241 or 2443	Organic Chemistry	3	MCB 2610
STAT 1000Q or 1100Q	Statistics	4	Fund. of Microbiology
MCB 2400 or 2410	Human Genetics/Genetics	3	###CHEM 2444† (if taking CHEM 2443) or Elective
### CHEM 2242† (if taking CHEM 2241) or Elective		1-3	### General Education W course
### General Education		<u>3</u>	### General Education
		14-17 credits	<u>3</u>
			13 credits

†DGS does not require a 2nd Orgo- **HIGHLY** recommended if considering grad programs in medicine, genetics, or genetic counseling

YEAR THREE

Admission into the junior/senior year requires separate application

FALL		SPRING	
AH 2001	Medical Terminology	1	DGS 3225
AH 3121	Immunology	3	Chromosome Imaging
DGS 3222	Medical Cytogenetics	4	DGS 4224
DGS 3223	Laboratory in Cytogenetics	3	Cancer Cytogenetics
Electives		<u>3</u>	DGS 4234W
		14 credits	Dx. Molecular Technologies
			DGS 4235
			Lab. Molecular Diagnostics
			DGS 4236
			Case Studies Molecular Path
			DGS 4246
			Contemp. Issues Human Genetics
			MLSC 4500
			Lab Operations
			<u>2</u>
			16 credits

YEAR FOUR

FALL			
AH 4241	Research for the Health Prof.	2	
DGS 4248	Adv Karyo & Rpt Writing	2	
Electives (i.e. DGS 3226, MCB 3211, MCB 3412, MCB 4416)		<u>8-10</u>	
		12-14 credits	

SPRING (Clinical Affiliation - January 2 – June 30)

Cytogenetics Concentration:

DGS 4810	Suspension Cell Culture, Harvest, & Analysis	6
DGS 4820	Attached Cell Culture, Harvest, & Analysis	6
DGS 4830	Molecular Cytogenetic Technologies	3
DGS 4850	Investigative Topics	1
(or 4997) (or Honors Research)		<u>(3)</u>
		16-18 credits

Molecular Diagnostics Concentration:

DGS 4501	Specimen Processing	2
DGS4502	Nucleic Acid Isolation	4
DGS 4503	Amplification Methods	6
DGS 4850	Investigative Topics	1
(or 4997) (or Honors Research)		<u>(3)</u>
	<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 4514	DNA Sequencing	
DGS 4515	Mol. Applications in Microbiology	
		15-17 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.

Q course placement is based on Math SAT score and Class Rank. 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.