

**UNIVERSITY OF CONNECTICUT
DEPARTMENT OF ALLIED HEALTH SCIENCES**

DIAGNOSTIC GENETIC SCIENCES – Cytogenetics Concentration (Sample Sequence of Courses[§])

CATALOG YEAR Beginning 2008

YEAR ONE

FALL				SPRING			
* CHEM 1124Q or 1127Q	General Chemistry I	4		CHEM 1125Q or 1128Q	General Chemistry II	4	
## MATH 1040Q, 1060Q or above	Pre-calculus or above	3/4		BIOL 1107	General Biology I	4	
## ENGL 1010 or 1011	Seminar in Writing	4		## General Education		3	
## General Education		3		## General Education		3	
INTD 1800 (strongly recommended)		1		# Elective		1/3	
			14 – 16 credits				14-17 credits

YEAR TWO

FALL				SPRING			
CHEM 2241 & 2242	Organic Chemistry	4		*MCB 2000	Biochemistry	4	
MCB 2410 (may take jr year)	Genetics	3		BIOL Option	(suggest BIOL 1103, 1108)	4	
## STAT 1000Q or 1100Q	Statistics	4		## General Education		3	
## General Education		3		## General Education		3	
			14 credits				14 credits

YEAR THREE

Admission into the junior/senior year requires separate application

FALL				SPRING			
*MCB 2000 or elective	Biochemistry or Elective	3/4		MCB 2610	Fund. of Microbiology	4	
MLS 3101	Intro to Med Lab Sciences	2		DGS 3222	Medical Cytogenetics	4	
MCB 2210	Cell Biology	3		DGS 3223	Laboratory in Cytogenetics	2	
MCB 2410	Genetics	3		MLS 3121	Immunology	3	
Elective		3		Elective		3	
			14-15 credits				16 credits

* Usually taken prior to admission to the DGS program

SUMMER

DGS 4224	Cancer Cytogenetics	2 credits
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YEAR FOUR

FALL				SPRING			
AH 4241(W)	Research	3		DGS 4701	Periph. Blood Cytogenetics	4	
AH 4244	Management	3		DGS 4702	Prenatal Cytogenetics	4	
DGS 4234W	Dx. Molecular Technologies	3		DGS 4703	Bone Marrow Cytogenetics	4	
DGS 4235	Lab. Molecular Diagnostics	2		DGS 4712	FISH	2	
DGS 3225	Chromosome Imaging	1		DGS 4713	Pract. in Imaging/ Staining	1	
DGS 4246	Contemporary Issues in Human Genetics	3		DGS 4750	Research in Cytogenetics	1	
			15 credits	(DGS 4997-Honors students)			16 credits

Total credits: **120 – 124 credits 120 credits required for graduation**

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

#This plan of study assumes the **foreign language** 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 2 "W" skill coded courses. DGS 234W satisfies the "W" in the major. Students may 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.