UNIVERSITY OF CONNECTICUT
DEPARTMENT OF ALLIED HEALTH SCIENCES
DIAGNOSTIC GENETIC SCIENCES PROGRAM
(Sample Sequence of Courses)
CATALOG YEAR Beginning Fall 2016

YEAR ONE

FALL
CHEM 1124Q or 1127Q General Chemistry I 4
## ENGL 1010 or 1011 4
## MATH 1060Q, or above 3-4
*## General Education 3
UNIV 1800 FYE (not required, but strongly recommended) 1

SPRING
CHEM 1125Q or 1128Q General Chemistry II 3
Biol 1107 General Biology I 4
*## General Education 3
15-16 credits

YEAR TWO

FALL
CHEM 2241 or 2443 Organic Chemistry 3
STAT 1000Q or 1100Q Statistics 4
MBI 2400 or 2410 Human Genetics/Genetics 3
*## CHEM 2242† (if taking CHEM 2241) or Elective 1-3
*## General Education 1

SPRING
MCD 2610 Fund. of Microbiology 4
STAT 1000Q or 1100Q Statistics 4
## MCD 2400 or 2410 Human Genetics/Genetics 3
*## CHEM 2242† (if taking CHEM 2443) or Elective 1-3
*## General Education 3
14-17 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
AH 2001 Medical Terminology 1
AH 3121 Immunology 3
DGS 3222 Medical Cytogenetics 4
DGS 3223 Laboratory in Cytogenetics 3
Electives 3

SPRING
DGS 3225 Chromosome Imaging 1
DGS 4224 Cancer Cytogenetics 4
DGS 4235 Lab. Molecular Diagnostics 2
DGS 4236 Case Studies Molecular Path 1
DGS 4246 Contemp. Issues Human Genetics 3
MLSC 4500 Lab Operations 2
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, MCD 3211, MCD 3412, MCD 4416) 8-10
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 (or 4997) (or Honors Research) 1 |

Molecular Diagnostics Concentration:

| DGS 4510 | In Situ Hybridization Methods |
| DGS 4512 | Cloning Techniques |
| DGS 4513 | Blotting Techniques |
| DGS 4514 | DNA Sequencing |
| DGS 4515 | Mol. Applications in Microbiology |

16-18 credits

One of the following elective courses: 2

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.

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

Orientation/DGS- suggested sequence of study

rev 04/16