YEAR ONE

FALL  SPRING
CHEM 1124Q or 1127Q  General Chemistry I  4  CHEM 1125Q or 1128Q  General Chemistry II  3-4
*** ENGL 1010 or 1011  4  BIOL 1107  General Biology I  4
*** MATH 1060Q, or above  3-4  *** General Education  3
** General Education  3  ** General Education  3
UNIV 1800 FYE (not required, but strongly recommended)  1  15-16 credits

YEAR TWO

FALL  SPRING
CHEM 2241 or 2443  Organic Chemistry  3  MCB 2610  Fund. of Microbiology  4
STAT 1000Q or 1100Q  4  ***CHEM 2444† (if taking CHEM 2443) or Elective  3
MCB 2400 or 2410  Human Genetics/Genetics  3  *** General Education W course  3
MCB 2424 or 2425  Medical Cytogenetics  3  ** MCB 2400 or 2410  3
Electives  3  14 credits

YEAR THREE

Admission into the junior/senior year requires separate application

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

YEAR FOUR

FALL  SPRING
AH 4241  Research for the Health Prof.  2  DGS 4248  Adv Karyo & Rpt Writing  2
DGS 4236  Case Studies Molecular Path  2  DGS 4236  Molecular stray  2
DGS 4236  Case Studies Molecular Path  2  12-14 credits
Electives (i.e. DGS 3226, MCB 3211, MCB 3412, MCB 4416)  6-8

SPRING (Clinical Affiliation - January 2 – June 30)

Cyto geneics Concentration:  Molecular Diagnostics Concentration:

DGS 4810  Suspension Cell Culture, Harvest, & Analysis  6  DGS 4501 Specimen Processing  2
DGS 4820  Attached Cell Culture, Harvest, & Analysis  6  DGS4502 Nucleic Acid Isolation  4
DGS 4830  Molecular Cytogenetic Technologies  3  DGS 4503 Amplification Methods  6
DGS 4850  Investigative Topics  1  DGS 4505 Investigative Topics  1
(or 4997) (or Honors Research)  (3) (or 4997) (or Honors Research)  (3)
One of the following elective courses:  2
16-18 credits  DGS 4510  In Situ Hybridization Methods
DGS 4512  Cloning Techniques
DGS 4513  Blotting Techniques
DGS 4514  DNA Sequencing
DGS 4515  Mol. Applications in Microbiology

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.