



**PART I: GENERAL EDUCATION REQUIREMENTS (GER) <sup>1</sup>**

Courses approved to meet GER are outlined in the Academic Regulations section of the *Undergraduate Catalog*.

*Courses in Content Areas 1-3 must be in 6 different departments.*

*One course from Content Area 4 may be used to fulfill a requirement in Content Areas 1-3.*

Content Area	Dept.	Course No.	Credits	Semester/Year	Grade
<input type="checkbox"/> Foreign Languages (3 years single language in high school) OR pass second course in first-year college sequence					
<input type="checkbox"/>				____ / ____	____
				____ / ____	____
ENGL 1010 or 1011				____ / ____	____
"W" Course				____ / ____	____
"W" Course ( <i>within major</i> )				____ / ____	____
"Q" Course				____ / ____	____
"Q" Course ( <i>MATH or STAT</i> )				____ / ____	____
Environmental Literacy (total 3 credits)				____ / ____	____
1 Arts & Humanities ( <i>total 6 credits</i> )				____ / ____	____
				____ / ____	____
2 Social Sciences ( <i>total 6 credits</i> )				____ / ____	____
				____ / ____	____
3 Science & Technology ( <i>total 6 credits – include one 4-credit laboratory course</i> )				____ / ____	____
				____ / ____	____
4 Diversity & Multiculturalism ( <i>total 6 credits – one must be "International" course</i> )				____ / ____	____
				____ / ____	____

**Computer Technology Competency:** See major requirements

**Information Literacy Competency:** See major requirements

**PART II: INDIVIDUAL COURSE REQUIREMENTS OF DIAGNOSTIC GENETIC SCIENCES MAJOR<sup>1</sup>**

Courses in this section that are numbered 2000-level or above may also be used to meet the 36 Credit Requirement (Part III).

**ALL of the following Mathematics and Sciences courses:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
BIOL	1107	Principles of Biology	4	_____ / _____	_____
CHEM	<input type="checkbox"/> 1124Q & 1125Q <input type="checkbox"/> or 1127Q & 1128Q	Fundamentals of General I and II or General Chemistry	_____	_____ / _____	_____
CHEM	<input type="checkbox"/> 2241 <input type="checkbox"/> or 2443	Organic Chemistry	3	_____ / _____	_____
MATH	<input type="checkbox"/> 1040Q <input type="checkbox"/> or 1060Q <input type="checkbox"/> or 1125Q (or higher)	Elementary Mathematical Modeling or Precalculus or Calculus I	3	_____ / _____	_____
MCB*	<input type="checkbox"/> 2400 <input type="checkbox"/> or 2410	Human Genetics or Genetics	3	_____ / _____	_____
MCB*	<input type="checkbox"/> 2610	Fundamentals of Microbiology	4	_____ / _____	_____
STAT*	<input type="checkbox"/> 1000Q <input type="checkbox"/> or 1100Q	Introduction to Statistics I or Elementary Concepts of Statistics	4	_____ / _____	_____

\*At least one of these courses must be completed prior to starting the program.

*Writing Competency:* Students must pass DGS 4234W.

*Computer Technology Competency:* University entry-level competencies have been reviewed and satisfy all program requirements.

*Information Literacy Competency:* Competencies will be met through successful completing of program major courses.

**Professional Courses**

All professional courses must be completed with a grade of "C" or better. Professional courses may ONLY be repeated once for a total of two times.

**ALL of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
AH	2001	Medical Terminology	1	_____ / _____	_____
AH	3121	Immunology for the Medical Laboratory Sciences	3	_____ / _____	_____
AH	4241	Research for the Health Professions	2	_____ / _____	_____
DGS	3222	Medical Cytogenetics	4	_____ / _____	_____
DGS	3223	Laboratory in Cytogenetics	3	_____ / _____	_____
DGS	4224	Cancer Cytogenetics	3	_____ / _____	_____
DGS	4234W	Diagnostic Molecular Technologies	3	_____ / _____	_____
DGS	4235	Laboratory in Molecular Diagnostics	2	_____ / _____	_____

DIAGNOSTIC GENETIC SCIENCES

Dept.	No.	Course Title	Credits	Semester/Year	Grade
DGS	4236	Case Studies in Molecular Pathology	1	_____ / _____	_____
DGS	4246	Contemporary Issues in Human Genetics	3	_____ / _____	_____
DGS	5700	Ethical Considerations in Genetic Testing & Research	3	_____ / _____	_____
MLSC	4500	Laboratory Operations and Professional Practice	2	_____ / _____	_____

**Diagnostic Genetic Sciences offers two concentrations: Cytogenetics and Molecular Diagnostics.**

**Cytogenetics Concentration Clinical Courses:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
DGS	4248	Advanced Karyotyping and Report Writing	2	_____ / _____	_____
DGS	4810	Suspension Cell Culture, Harvest, and Analysis	6	_____ / _____	_____
DGS	4820	Attached Cell Culture, Harvest, and Analysis	6	_____ / _____	_____
DGS	4830	Molecular Cytogenetic Technologies	3	_____ / _____	_____
DGS	<input type="checkbox"/> 4850 <input type="checkbox"/> or 4997	Investigative Topics in Laboratory Genetics or Honors Research (honors students only)	_____	_____ / _____	_____

**Molecular Concentration Practicum Courses:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
DGS	4402	Specimen Preparation, Nucleic Acid Isolation & Assessment	4	_____ / _____	_____
DGS	4503	Amplification Methods	6	_____ / _____	_____
DGS	4604	Sequencing Techniques and Data Analysis	3	_____ / _____	_____
DGS	<input type="checkbox"/> 4850 <input type="checkbox"/> or 4997	Investigative Topics in Laboratory Genetics or Honors Research (honors students only)	_____	_____ / _____	_____
DGS	<input type="checkbox"/> 4510 <input type="checkbox"/> or 4512 <input type="checkbox"/> or 4513 <input type="checkbox"/> or 4515	In Situ Hybridization Methods or Cloning Techniques or Blotting Applications or Microbiological Applications of Molecular Diagnostics	2	_____ / _____	_____

**One Molecular Elective at 2000-level or above, and two or more credits approved by advisor:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____

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## ONLINE PLAN OF STUDY FORM ATTACHMENT

### PART III: 36 CREDIT REQUIREMENT FOR ALL MAJORS<sup>1</sup>

Each student is required to successfully complete at least 36 credits of courses that are numbered 2000-level or above in or relating to their major. These courses may also be used to meet other requirements. This group of courses must:

1. Total not less than 36 credits
2. Be numbered 2000 or above
3. Be approved by student's advisor and department head
4. Be taken at the University of Connecticut<sup>2</sup>
5. Include two or more departments
6. Include at least 15 credits from departments in the College of Agriculture, Health and Natural Resources
7. Have a combined Grade Point Average of at least 2.0
8. Not include more than 6 credits (combined) of Independent Study, Internship, or Field Studies (if included, these courses must be taken at the University of Connecticut)
9. Not be taken on Pass/ Fail (P@ / F@)
10. Not include more than 6 credits of Satisfactory/Unsatisfactory (S/U) coursework

Dept.	No.	Credits	Semester/Year	Grade
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____

Dept.	No.	Credits	Semester/Year	Grade
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____
_____	_____	_____	_____/____	_____

Credits from departments in CAHNR (15 required): \_\_\_\_\_

(CAHNR subject codes include AGNR, AH, ANSC, ARE, DGS, DIET, ENVS, EVST, HORT, KINS, LAND, MLSC, NRE, NUSC, PLSC, PVS, SOIL, SPSS, TURF)

Total Credits in 36 credit group: \_\_\_\_\_

<sup>1</sup>Courses taken on Pass/Fail may NOT be used to meet any requirements.

<sup>2</sup>**Residence Requirement.** It is expected that advanced course work in the major will be completed at the University of Connecticut. However, students may be eligible to use up-to six credits from other institutions in the 36-credit group if approved by their advisor and department head. These credits must be identified as courses comparable to specific University of Connecticut courses and cannot include internships, special topics, or non-specific discipline credits. Transfer students must complete at least 30 credits of 2000-level or higher course work at the University of Connecticut, including at least 15 credits in College of Agriculture, Health and Natural Resources courses.