

# UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

## PLAN OF STUDY FORM Catalog Year 2016-2017 Diagnostic Genetic Sciences

### DIRECTIONS

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- This Plan of Study (plan) is used as a *worksheet* during initial registration and every subsequent semester to determine minimum requirements and progress toward completing the degree. A *preliminary plan* is developed and submitted to the advisor by the end of the sophomore year (or equivalent time for transfer students).
- **A final plan must be approved by advisor and department head, and submitted to the Degree Auditor (Unit 4077, Wilbur Cross Building) no later than the end of the tenth week of classes of the semester prior to the anticipated semester of graduation.**
- Students must complete all major and general education course requirements and earn:
  - At least 120 credits toward the degree**
  - At least a 2.0 Cumulative Grade Point Average (CGPA)**
  - At least a 2.0 Grade Point Average for ALL courses listed in the 36 Credit Requirement**
- University of Connecticut General Education Requirements (GER), are outlined in the Academic Regulations section of the *Undergraduate Catalog*. Only approved courses may be used to meet requirements.
- Students should use their Academic Requirements Report (accessible in Student Admin) along with the Plan of Study to view their graduation requirements and assess status toward degree. Students must be attentive to credit restrictions (repeated courses, out of sequence classes, etc.). Courses taken Pass/Fail may NOT be used to meet any requirements.

### STUDENT AND DEGREE INFORMATION

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**Must be filled out completely on your final plan of study.**

Select one:  Preliminary Plan  Final Plan

Name \_\_\_\_\_ Student I.D. \_\_\_\_\_  
First Middle Last

Phone # \_\_\_\_\_ Email Address \_\_\_\_\_

Current Address: \_\_\_\_\_  
Street City/Town State Zip Code

Month and Year of Anticipated Graduation  May  August  December Year: \_\_\_\_\_

Are you pursuing a double major in CAHNR?  Yes  No If Yes, submit Double Major Attachment with final plans of study.

Please list below any minors that you plan to earn and submit a final minor plan of study with your final major plan of study.

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At the completion of semester you intend to graduate, will you have earned 120 or more credits?  Yes  No

### APPROVAL SIGNATURES

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Student's Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Department Head's Signature \_\_\_\_\_ Date \_\_\_\_\_

**The final plan must be submitted to the Registrar's Office in the Wilbur Cross Building.  
Please remember to keep a copy of the plan for your records.**

## 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
Foreign Languages (3 years single language in high school) OR pass second course in first-year college sequence					
	_____	_____	_____	____ / ____	____
	_____	_____	_____	____ / ____	____
	ENGL 1010 or 1011	_____	_____	____ / ____	____
	"W" Course	_____	_____	____ / ____	____
	"W" Course ( <i>within major</i> )	_____	_____	____ / ____	____
	"Q" Course	_____	_____	____ / ____	____
	"Q" Course ( <i>MATH or STAT</i> )	_____	_____	____ / ____	____
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

## DIAGNOSTIC GENETIC SCIENCES

### 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 Science Courses:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
CHEM	1124Q and 1125Q or 1127Q and 1128Q	Fundamentals of General Chemistry I and II or General Chemistry	—	____ / ____ ____ / ____	____ ____
CHEM	2241 or 2443	Organic Chemistry	3	____ / ____ ____ / ____	____ ____
BIOL	1107	Principles of Biology I	4	____ / ____	____
MATH	1040Q or 1060Q or 1125Q (or higher)	Elementary Mathematical Modeling or Precalculus or Calculus Ia	3	____ / ____	____
MCB*	2400 or 2410	Human Genetics or Genetics	3	____ / ____ ____ / ____	____ ____
MCB*	2610	Fundamentals of Microbiology	4	____ / ____	____
STAT*	1000Q 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 completion 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	3225	Microscopy & Chromosome Imaging	1	____ / ____	____
DGS	4224	Cancer Cytogenetics	3	____ / ____	____
DGS	4234W	Diagnostic Molecular Technologies	3	____ / ____	____
DGS	4235	Laboratory in Molecular Diagnostics	2	____ / ____	____
DGS	4236	Case Studies in Molecular Pathology	1	____ / ____	____
DGS	4246	Contemporary Issues in Human Genetics	3	____ / ____	____
DGS	4248	Advanced Karyotyping and Report Writing	2	____ / ____	____
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	4810	Suspension Cell Culture, Harvest, and Analysis	6	_____ / _____	____
DGS	4820	Attached Cell Culture, Harvest, and Analysis	6	_____ / _____	____
DGS	4830	Molecular Cytogenetic Technologies	3	_____ / _____	____
DGS	4850 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	4501	Specimen Processing	2	_____ / _____	____
DGS	4502	Nucleic Acid Isolation	4	_____ / _____	____
DGS	4503	Amplification Methods	6	_____ / _____	____
DGS	4850 or 4997	Investigative Topics in Laboratory Genetics or Honors Research (honors students only)	_____	_____ / _____	____
DGS	4510 or 4512 or 4513 or 4514 or 4515	In Situ Hybridization Methods or Cloning Techniques or Blotting Applications or DNA Sequencing or Microbiological Applications of Molecular Diagnostics	2	_____ / _____	____

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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, HORT, KINS, LAND, MLSC, NRE, NUSC, PLSC, PVS, SOIL, 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.