UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY

Catalog Year 2025-2026 DIAGNOSTIC GENETIC SCIENCES MAJOR

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.

- In your final year, you will submit a final plan of study electronically through the Student Administration System. For more information, visit the **Registrar's Steps to a Successful Graduation**.
- Students must complete all major and General Education or Common Curriculum course requirements and earn:
 - At least 120 credits towards 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 (Part III).
- University of Connecticut Common Curriculum Requirements are outlined in the <u>Undergraduate Academic Catalog</u>.
- Students should use their Academic Requirements Report (accessible in Student Admin) along with this 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 degree requirements, including major requirements, General Education requirements, or Common Curriculum requirements.
- Students are responsible for knowing and understanding the rules and requirements of their degree. Always refer to the Catalog (linked above) for official regulations and ask your advisor when you need clarification.

Academic Catalog	CAHNR Academic	CAHNR Academic Forms	Sample Course
	Policies		<u>Sequences by Major</u>
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<u>The "Q" (Quantitative)</u> <u>Center</u>	The Writing Center	<u>Center for Students with</u> <u>Disabilities</u>	<u>The Dean of Student's</u> <u>Office</u>
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Additional Resources:

PART I: COMMON CORE CURRICULUM REQUIREMENTS

For a full listing of courses within each Topic of Inquiry (TOI), please visit the Common Curriculum page of the Undergraduate Catalog.

Common Curriculum Requirements – Undergraduate Academic Catalog



Topics of Inquiry

Requirements:

- 1. At least three credits must be passed in each Topic of Inquiry (many courses fulfill two TOI).
- Students must also satisfy a Focus requirement by successfully completing either nine credits in a single TOI or nine credits within a Theme (learn more about Themes on the Common Curriculum page of the Undergraduate Catalog – linked above).
- 3. Common Curriculum courses may be counted toward the major.
- 4. Including the Focus requirement, students must pass at least 21 credits of TOI courses.
- 5. The 21 credits of TOI courses must be from at least six different subject areas as designated by subject code (e.g., ANTH). For cross-listed courses, students may count any subject code under which the course is offered toward this requirement regardless of the subject code under which they register for the course.
- 6. Students must complete at least one laboratory course designated as TOI-6L.
- 7. No more than six credits with the INTD prefix may be elected by any student to meet the Common Curriculum Requirements.

TOI-1: Creativity: Design, Expression, Innovation
TOI-2: Cultural Dimensions of Human Experiences
TOI-3: Diversity, Equity, and Social Justice
TOI-4: Environmental Literacy
TOI-5: Individual Values and Social Institutions
TOI-6: Science and Empirical Inquiry
TOI-6L: Science and Empirical Inquiry (Laboratory Course)

ΤΟΙ	Dept.	Course No.	Credits
TOI-1			
TOI-2			
TOI-3			
TOI-4			
TOI-5			
TOI-6*			

*At least one TOI-6L course is required

FOCUS REQUIREMENT					
TOI:					
	OR				
THEM	IE:				
Dept.	Course No.	Credits			

TOI REQUIREMENTS CHECKLIST:

- At least three credits from each TOI
- □ 21 credits (minimum) of TOI coursework
- TOI credits completed in at least 6 different subject codes (e.g. ANTH)
 - Subject codes: _____, ____, ____, ____, ____, ____, and _____
- One Laboratory course designated as TOI-6L: _____

Competencies

Description	Dept.	Course No.	Credits
Foreign Languages (3 years single language in high school OR pass second course in first year college sequence)			
ENGL 1007 <u>or</u> 1010 <u>or</u> 1011			
"W" Course			
"W" Course <i>(within major)</i>			
"Q" Course			
"Q" Course (MATH or STAT)			

CAHNR Agriculture, Health, and Environment Requirement

Students in the College of Agriculture, Health, and Natural Resources must pass two courses (six credits) from the pre-approved list (find the list of pre-approved courses on the CAHNR Degree Requirements page of the Undergraduate Catalog). Courses must come from two different subject areas.

CAHNR Requirement Pre-Approved Courses List



Dept.	No.	Course Title	Credits

PART II: INDIVIDUAL COURSE REQUIREMENTS OF DIAGNOSTIC GENETIC SCIENCES MAJOR

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:

Dept.	No.	Course Title	Credits
BIOL	□ 1107	Principles of Biology I	4
	□ 1124Q <u>&</u> 1125Q	Fundamentals of General Chemistry I and II	
CHEM	□ <u>or</u> 1127Q <u>&</u> 1128Q	or General Chemistry I and II	
CHEM	□ 2241	Organia Chemistry	3
CHEM	□ or 2443	Organic Chemistry	3
MATH	□ 1060Q	Precalculus	3
	□ 2400	Human Genetics	
MCB*	□ <u>or</u> 2410	<u>or</u> Genetics	3
MCB*	□ 2610	2610 Fundamentals of Microbiology	
	□ 1000Q	Introduction to Statistics I	
STAT*	□ <u>or</u> 1100Q	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:

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Dept.	No.	Course Title	Credits	
AH	□ 2001	Medical Terminology	2	
AH	□ 3021	Environment, Genetics, and Cancer	3	
AH	□ 3121	Immunology for the Medical Laboratory Sciences	3	
AH	□ 4241	1 Research for the Health Professional		
DGS	□ 3100	Cytogenetic Technologies	3	
DGS	□ 4234W	Diagnostic Molecular Technologies	3	
DGS	□ 4235	Laboratory in Molecular Diagnostics	2	
DGS	□ 4236	Case Studies in Molecular Pathology		
MLSC	□ 4500	Laboratory Operations and Professional Practice	2	

Four Related Cognates Courses at the 2000-level or above as approved by DGS advisor:

Dept.	No.	Course Title	Credits

Molecular Practicum Courses:

	pt. No. Course Title		
Dept. DGS	Specimen Preparation, Nucleic Acid Isolation		Credits 4
DGS	□ 4503	Amplification Methods	6
DGS	□ 4604	Sequencing Techniques and Data Analysis	3
DGS	□ 4850 □ <u>or</u> 4997		
DGS	 □ 4510 □ <u>or</u> 4512 □ <u>or</u> 4513 □ <u>or</u> 4515	or Honors Research (Honors students only) In Situ Hybridization Methods or Cloning Techniques or Blotting Applications or Microbiological Applications of Molecular Diagnostics Diagnostics	

PART III: 36 CREDIT REQUIREMENT FOR ALL MAJORS¹

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 Connecticut²
- 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
		<u> </u>
		<u> </u>

Dept.	No.	Credits

Credits from departments in CAHNR (15 required): _____

(CAHNR subject codes include AHNR, AH, ANSC, ARE, DGS, DIET, ENVS, EVST, KINS, LAND, MLSC, NRE, NUSC, PLSC, PATH, SPSS)

Total Credits in 36 credit group: _____

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

²**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.