UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY FORM
Catalog Year 2020-2021
Diagnostic Genetic Sciences

DIRECTIONS

- 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 the department head, and submitted to the Degree Auditor in the Registrars Office (1st floor, 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

Must be filed out complete 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 Zio 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.

_____

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

APPROVAL SIGNATURES

_____ _____
Student Signature Date

_____ _____
Advisor Signature Date

_____ _____
Department Head's Signature Date

The final plan of study 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) [1]

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 1007 or 1010 or 1011	_____	_____	_____	_____ / _____	_____
	"W" Course	_____	_____	_____	_____ / _____	_____
	"W" Course *(within major)*	_____	_____	_____	_____ / _____	_____
	"Q" Course	_____	_____	_____	_____ / _____	_____
	"Q" Course *(MATH or STAT)*	_____	_____	_____	_____ / _____	_____
	Environmental Literacy (*total 3 credits*)	_____	_____	_____	_____ / _____	_____
1	Arts & Humanities *(total 6 credits)*	_____	_____	_____	_____ / _____	_____
		_____	_____	_____	_____ / _____	_____
2	Social Sciences *(total 6 credits)*	_____	_____	_____	_____ / _____	_____
		_____	_____	_____	_____ / _____	_____
3	Science & Technology *(total 6 credits – include one 4-credit laboratory course)*	_____	_____	_____	_____ / _____	_____
		_____	_____	_____	_____ / _____	_____
4	Diversity & Multiculturalism *(total 6 credits – one must be "International" course)*	_____	_____	_____	_____ / _____	_____
		_____	_____	_____	_____ / _____	_____

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[1]

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 I	4	_____ /_____	_____
CHEM	☐ 1124Q & 1125Q ☐ or 1127Q & 1128Q	Fundamentals of General I and II or General Chemistry I and II	_____	_____ /_____	_____
CHEM	☐ 2241 ☐ or 2443	Organic Chemistry	3	_____ /_____	_____
MATH	☐ 1040Q ☐ or 1060Q ☐ or 1125Q (or higher)	Elementary Mathematical Modeling or Precalculus or Calculus I	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 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	2	_____ /_____	_____
AH	3121	Immunology for the Medical Laboratory Sciences	3	_____ /_____	_____
AH	4241	Research for the Health Professional	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 ☐ or AH 5700		Contemporary Issues in Human Genetics 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	☐ 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	4402	Specimen Preparation, Nucleic Acid Isolation & Assessment	4	_____ /_____	_____
DGS	4503	Amplification Methods	6	_____ /_____	_____
DGS	4604	Sequencing Techniques and Data Analysis	3	_____ /_____	_____
DGS	☐ 4850 ☐ or 4997	Investigative Topics in Laboratory Genetics or Honors Research (honors students only)	_____	_____ /_____	_____
DGS	☐ 4510 ☐ or 4512 ☐ or 4513 ☐ 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[1]

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[2]
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
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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: _____

[1]Courses 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.