UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY FORM

Catalog Year 2019-2020
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

STUDENT AND DEGREE INFORMATION

Department Head's Signature

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.

Must be filed out complete on your	final plan of study.		Select One:	☐ Preliminar	y Plan	☐ Final Plan
Name	Middle		Last	Student I.D.: —		
· · · - ·						
Phone #:	Email Addres	s:				
Current Address:						
Street		City/Town		State	Zio Code	
Month and Year of Anticipated Gradua	ation: \square May	,	☐ August	☐ December	Year: _	
Are you pursuing a double major in CA	AHNR: □Yes	□No	If YES, submi	t Double Major Atta	achment v	with final plans of study
Please list below any minors that you	plan to earn and sub	mit a fina	al minor plan of	study with your fin	al major p	olan of study.
At the completion of semester you inte	end to graduate, will y	you have	earned 120 or	more credits?	Yes	□No
APPROVAL SIGNATURES						
Student Signature				Date		
Advisor Signature				Date		

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.

Cont	tent Area	Dept.	Course No.	Credits	Semester/Year	Grade
	Foreign Languages (3 years single language in hi	gh school) O	R pass second	course in fir	st-year college sequenc	e
	ENGL 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)					
'	Arts & Humanities (total o credits)					
2	Social Sciences (total 6 credits)					
	Social Sciences (total o credits)					
3	Science & Technology (total 6 credits – include					
	one 4-credit laboratory course)				/	
4	Diversity & Multiculturalism (total 6 credits – one					
7	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 MAJOR¹

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	□ 1124Q <u>&</u> 1125Q	Fundamentals of General I and II			
	□ <u>or</u> 1127Q <u>&</u> 1128Q	or General Chemistry		/	
	□ 2241		_		
CHEM	□ <u>or</u> 2443	Organic Chemistry	3	/	
	□ 1040Q	Elementary Mathematical Modeling			
MATH	□ <u>or</u> 1060Q	or Precalculus	3	/	
	☐ <u>or</u> 1125Q (or higher)	or Calculus I			
	□ 2400	Human Genetics			
MCB*	□ <u>or</u> 2410	or Genetics	3	/	
MCB*	□ 2610	Fundamentals of Microbiology	4	/	
	□ 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 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	/	
АН	3121	Immunology for the Medical Laboratory Sciences	3	/	
АН	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	I	
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	/	
200	□ 4850	Investigative Topics in Laboratory Genetics			
DGS	□ <u>or</u> 4997	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	/	
D00	□ 4850	Investigative Topics in Laboratory Genetics			
DGS	□ <u>or</u> 4997	or Honors Research (honors students only)		/	
	□ 4510	In Situ Hybridization Methods			
DGS	□ <u>or</u> 4512	or Cloning Techniques	2	1	
	□ <u>or</u> 4513	or Blotting Applications			
	□ <u>or</u> 4515	or Microbiological Applications of Molecular Diagnostics			

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

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

UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

ONLINE PLAN OF STUDY FORM ATTACHMENT

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:

- 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	Semester/Year	Grade	Dept.	No.	Credits	Semester/Year	Grade
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								/	
								/	

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

²Residence 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.