

UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY FORM Catalog Year 2018-2019 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 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

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.

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

APPROVAL SIGNATURES

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) 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 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 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 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 | 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 | _____ / _____ | ___ |

UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

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 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 |
|-------|-------|---------|---------------|-------|
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| 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 _____

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.