













PLAN OF STUDY Catalog Year 2025-2026 PLANT SCIENCE 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 [Undergraduate Academic Catalog](#).
- 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.

Additional Resources:

Academic Catalog 	CAHNR Academic Policies 	CAHNR Academic Forms 	Sample Course Sequences by Major 
Navigating the Student Admin System 	Navigating HuskyCT 	Academic Achievement Center 	Center for Career Readiness and Life Skills 
The "Q" (Quantitative) Center 	The Writing Center 	Center for Students with Disabilities 	The Dean of Student's Office 

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).
- 2. 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)

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

FOCUS REQUIREMENT		
TOI: _____		
-- OR --		
THEME: _____		
Dept.	Course No.	Credits
_____	_____	_____
_____	_____	_____
_____	_____	_____

**At least one TOI-6L course is required*

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
<input type="checkbox"/>	Foreign Languages (3 years single language in high school OR pass second course in first year college sequence)	_____	_____	_____
<input type="checkbox"/>	ENGL 1007 <u>or</u> 1010 <u>or</u> 1011	_____	_____	_____
<input type="checkbox"/>	“W” Course	_____	_____	_____
<input type="checkbox"/>	“W” Course (<i>within major</i>)	_____	_____	_____
<input type="checkbox"/>	“Q” Course	_____	_____	_____
<input type="checkbox"/>	“Q” Course (<i>MATH or STAT</i>)	_____	_____	_____

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 PLANT SCIENCE 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 courses:

Dept.	No.	Course Title	Credits
BIOL	<input type="checkbox"/> 1108	Principles of Biology II	4
	<input type="checkbox"/> <u>or</u> 1110	<u>or</u> Introduction to Botany	
CHEM	<input type="checkbox"/> 1122	Chemical Principles and Applications	4
	<input type="checkbox"/> <u>or</u> 1124Q	<u>or</u> Fundamentals of General Chemistry I	
	<input type="checkbox"/> <u>or</u> 1127Q	<u>or</u> General Chemistry I	
PLSC	<input type="checkbox"/> 1120	Introduction to Plant Science	4
PLSC	<input type="checkbox"/> 2120	Environmental Soil Science	3
PLSC	<input type="checkbox"/> 2125	Soils Lab	1
PLSC	<input type="checkbox"/> 2110W	Sustainable Plant Pest Management Communication	1
	<input type="checkbox"/> <u>or</u> 2560W	<u>or</u> Written Communications in Horticulture	
PLSC	<input type="checkbox"/> 4210	Plant Physiology: How Plants Work	3

Writing Competency: Students must pass SPSS 3660W or 2110W.

Information Literacy Competency: Satisfied by required courses for major.

The Plant Science major has concentrations in Environmental Horticulture, Sustainable Agriculture, Turfgrass Science and General Plant Science.

ENVIRONMENTAL HORTICULTURE CONCENTRATION

ALL of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3640	Plant Propagation	3

TWO of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3810	Fundamentals of Plant Pathology	3
PLSC	<input type="checkbox"/> 3820	Ecology and Control of Weeds	3
PLSC	<input type="checkbox"/> 3830	Horticultural Entomology	3

TWO of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 2430	Herbaceous Ornamental Plants	3
PLSC	<input type="checkbox"/> 3410	Woody Plants: Common Trees, Shrubs, and Vines	3
PLSC	<input type="checkbox"/> 3560	Indoor Plants and Interiorscaping	3

THREE of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3440	Small Fruit Production	3
PLSC	<input type="checkbox"/> 3540	Garden Center Management	3
PLSC	<input type="checkbox"/> 3550	Urban Plant Systems Construction and Maintenance	3

PLSC	□ 3610	Organic and Sustainable Vegetable Production	4
PLSC	□ 3660	Nursery Production	3
PLSC	□ 3670	Greenhouse Technology & Operations	3
PLSC	□ 4650	Plant Tissue Culture	3

SUSTAINABLE AGRICULTURE CONCENTRATION

ALL of the following:

Dept.	No.	Course Title	Credits
PLSC	□ 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC	□ 2500E	Principles and Concepts of Agroecology	3
PLSC	□ 3610	Organic and Sustainable Vegetable Production	4
PLSC	□ 3620	Soil Fertility	3
PLSC	□ 3840	Integrated Pest Management	3
PLSC	□ 3990	Field Study Internship	1-6

TWO of the following:

Dept.	No.	Course Title	Credits
PLSC	□ 3810	Fundamentals of Plant Pathology	3
PLSC	□ 3820	Ecology and Control of Weeds	3
PLSC	□ 3830	Horticulture Entomology	3

TURFGRASS SCIENCE CONCENTRATION

ALL of the following:

Dept.	No.	Course Title	Credits
PLSC	□ 1100	Turfgrass Management	3
PLSC	□ 1115	Turfgrass Management Lab	1
PLSC	□ 3150	Advanced Turfgrass Management	3
PLSC	□ 3620	Soil Fertility	3
PLSC	□ 3990	Field Study Internship	1-6

THREE of the following:

Dept.	No.	Course Title	Credits
PLSC	□ 3810	Fundamentals of Plant Pathology	3
PLSC	□ 3820	Ecology and Control of Weeds	3
PLSC	□ 3830	Horticulture Entomology	3
PLSC	□ 3840	Integrated Pest Management	3

ONE of the following:

Dept.	No.	Course Title	Credits
PLSC	□ 2430	Herbaceous Ornamental Plants	3
PLSC	□ 3410	Woody Plants: Common Trees, Shrubs, and Vines	3
PLSC	□ 3550	Urban Plant Systems Construction and Maintenance	3

SOIL SCIENCE CONCENTRATION***ALL of the following:***

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3120E	Fungi, Fire, and Flood: Soil Microbes in a Changing World	3
PLSC	<input type="checkbox"/> 3620	Soil Fertility	3
PLSC	<input type="checkbox"/> 3700	Soil Morphology	3
PLSC	<input type="checkbox"/> 3710	Soil Management, Soil Health, and Climate Change	3

Choose ONE OR MORE of the following for 1-6 total credits:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3990	Field Study Internship	_____
PLSC	<input type="checkbox"/> 3996	Undergraduate Research in Plant Science	_____
PLSC	<input type="checkbox"/> 3999	Independent Study	_____

ONE of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3810	Fundamentals of Plant Pathology	3
PLSC	<input type="checkbox"/> 3820	Ecology and Control of Weeds	3
PLSC	<input type="checkbox"/> 3830	Horticultural Entomology	3
PLSC	<input type="checkbox"/> 3840	Integrated Pest Management	3

THREE of the following:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 1100	Turfgrass Management	3
PLSC	<input type="checkbox"/> 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC	<input type="checkbox"/> 2500E	Principles and Concepts of Agroecology	3
PLSC	<input type="checkbox"/> 3440	Small Fruit Production	3
PLSC	<input type="checkbox"/> 3550	Urban Plant Systems Construction and Maintenance	3
PLSC	<input type="checkbox"/> 3610	Organic and Sustainable Vegetable Production	3
PLSC	<input type="checkbox"/> 3660	Nursery Production	3
PLSC	<input type="checkbox"/> 3670	Greenhouse Technology and Operations	3

PLANT SCIENCE GENERAL CONCENTRATION**Choose ONE OR MORE of the following for a total of 2-6 credits:**

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3990	Field Study Internship	_____
PLSC	<input type="checkbox"/> 3996	Undergraduate Research in Plant Science	_____
PLSC	<input type="checkbox"/> 3999	Independent Study	_____

Plants in Ecology, Environments, and Landscapes – TWO of the following for 6 credits:

Dept.	No.	Course Title	Credits
LAND	<input type="checkbox"/> 2210E	The Common (Shared) Landscape of the USA: Rights, Responsibilities, and Values	3
LAND	<input type="checkbox"/> 2230E	Biophilic Cities and Landscapes	3
PLSC	<input type="checkbox"/> 1060E	The Great American Lawn: History, Culture, and Sustainability	3
PLSC	<input type="checkbox"/> 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC	<input type="checkbox"/> 2500E	Principles and Concepts of Agroecology	3
PLSC	<input type="checkbox"/> 3550	Urban Plant Systems Construction and Maintenance	3
PLSC	<input type="checkbox"/> 3820	Ecology and Control of Weeds	3

Applied Plant Production Systems – TWO of the following for 6-8 total credits:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 1100	Turfgrass Management	3
PLSC	<input type="checkbox"/> 1115	Turfgrass Management Lab	1
PLSC	<input type="checkbox"/> 2130	Introduction to the Horticulture of Cannabis	3
PLSC	<input type="checkbox"/> 2210	Golf Course Management	3
PLSC	<input type="checkbox"/> 3440	Small Fruit Production	3
PLSC	<input type="checkbox"/> 3540	Garden Center Management	3
PLSC	<input type="checkbox"/> 3610	Organic and Sustainable Vegetable Production	3
PLSC	<input type="checkbox"/> 3660	Nursery Production	3
PLSC	<input type="checkbox"/> 3670	Greenhouse Technology and Operations	3
PLSC	<input type="checkbox"/> 3675	Greenhouse Technology and Operations Laboratory	1

Plant Associated Microbes and Plant Pests – ONE of the following for 3 credits:

Dept.	No.	Course Title	Credits
PLSC	<input type="checkbox"/> 3120E	Fungi, Fire, and Flood: Soil Microbes in a Changing World	3
PLSC	<input type="checkbox"/> 3810	Fundamentals of Plant Pathology	3
PLSC	<input type="checkbox"/> 3830	Horticultural Entomology	3
PLSC	<input type="checkbox"/> 3840	Integrated Pest Management	3

Plant Materials – ONE of the following for 3 credits:

Dept.	No.	Course Title	Credits
PLSC	□ 2430	Herbaceous Ornamental Plants	3
PLSC	□ 2520	Floral Art	2
PLSC	□ 3410	Woody Plants: Common Trees, Shrubs, and Vines	3
PLSC	□ 3560	Indoor Plants and Interiorscaping	3

Plant Propagation and Breeding – ONE of the following for 3 credits:

Dept.	No.	Course Title	Credits
PLSC	□ 3210	Molecular Laboratory Technology	3
PLSC	□ 3230	Biotechnology – Science, Application, Impact, Perception	3
PLSC	□ 3245	Plant Breeding and Biotechnology	3
PLSC	□ 3255	Modern and Traditional Plant Breeding Techniques	3
PLSC	□ 3640	Plant Propagation	3

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
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Dept.	No.	Credits
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Credits from departments in CAHNR (15 required): _____

(CAHNR subject codes include AHNH, 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.