

College of Agriculture and Life Sciences
School of Plant and Environmental Sciences
Bachelor of Science in Plant Science: Major in Crop and Soil Sciences
For students entering under UG catalog 2023-2024

APPROVED
University Registrar

Pathways to General Education (42-45 credits)

Concept 1 – Discourse

1F – Foundational

____ (3) ENGL 1105 First-Year Writing (3 credits)

____ (3) ENGL 1106 First-Year Writing (3 credits)

1A – Advanced/Applied

____ (3) _____

Concept 2 – Critical Thinking in the Humanities

____ (3) _____

____ (3) _____

Concept 3 – Reasoning in the Social Sciences

____ (3) AAEC 1005 Econ Food Fiber Sys or ECON 2005 Principles of Economics – F, S

____ (3) _____

Concept 4 – Reasoning in the Natural Sciences

____ (3) CHEM 1035: General Chemistry* – F, S, SI, SII

____ (3) CHEM 1036: General Chemistry* – F, S, SI, SII

Concept 5 – Quantitative and Computational Thinking

5f – Foundational

____ (3) MATH 1014: Precalc with Transcendental

____ (3) _____

5a – Advanced/Applied

____ (3) _____

Concept 6 – Critique and Practice in Design and the Arts

6d – Design

____ (3) _____

6a – Arts

____ (3) _____

Concept 7 – Critical Analysis of Identity and Equity in the United States

(may be double-counted with another Pathways concept)

____ (3) _____

Plant Science Degree Core Requirements (23 credits)

____ (1) ALS 1234 or SPES 1004: First Year Seminar

____ (3) ALCE 3634: Comm Ag & Life Sci in Speaking
____ *or* ALCE 3624: Comm Agriculture in Writing

____ (3) BIOL 1105: Principles of Biology

____ (3) BIOL 1106: Principles of Biology

____ (3) ENSC 1015: Found Environmental Sci

____ (3) HORT/BIOL 2304: Plant Biology*

____ (3) PPWS 2104: Plants Genes and People

____ (4) PPWS 4104: Plant Pathology

Crop and Soil Sciences Major Requirements (21 credits)

____ (3) AAEC 2434: Foundations of Agribusiness*

____ (1) CHEM 1045: General Chemistry Lab*

____ (1) CHEM 1046: General Chemistry Lab*

____ (3) CSES 2444 Agronomic Crops

____ (3) CSES3114/GEOS 3614: Soils*

____ (1) CSES3124/GEOS 3624: Soils Laboratory*

____ (3) CSES 4144: Plant Breeding & Genetics

____ (3) CSES 4214: Soil Fertility and Management*

____ (3) ENT 4254: Insect Pest Management*

Restricted Electives (minimum 18 credits or approved Minor)

____ (3) AAEC 2104: Personal Financial Planning

____ (3) AAEC 3004: Ag Prod & Cons Econ

____ (3) AAEC 3314: Environmental Law

____ (3) AAEC 3504: Marketing Ag Products*

____ (3) AAEC 3604: Agricultural Law

____ (3) ALS 3404: Ecological Agriculture

____ (3) BIOL 1106: Principles of Biology

____ (3) BIOL 2804: Ecology*

____ (3) CHEM 2535: Organic Chemistry*

____ (3) CHEM 2536: Organic Chemistry*

____ (1) CHEM 2545: Organic Chemistry Laboratory*

____ (1) CHEM 2546: Organic Chemistry Laboratory*

____ (3) CSES 2224: Foundations of Precision Agriculture

____ (3) CSES 2244: Ag Global Food Sec and Health

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- ___ (3) CSES 2434: Crop Evaluation
- ___ (3) CSES 2564: Turfgrass Management
- ___ (3) CSES 3144: Soil Description & Interp
- ___ (3) CSES 4064: Soil Microbiology
- ___ (3) CSES/ENSC 3614: Soil Phys & Hydro Properties*
- ___ (3) CSES 4134: Soil Genesis & Class
- ___ (3) CSES 4224: Applied Concepts in Precision Agriculture
- ___ (3) CSES/FREC 4334: Agroforestry
- ___ (3) CSES 4344: Crop Physiology and Ecology
- ___ (3) CSES 4544: Forage Crop Ecology
- ___ (3) CSES 4854: Wetland Soils and Mitigation
- ___ (3) ENSC 3644: Plant for Env Rest*
- ___ (3) ENSC 4244: Ecological Restoration
- ___ (3) ENSC/CHEM 4734: Environmental Soil Chemistry*
- ___ (3) ENSC 4774: Reclamation Disturb. Lands
- ___ (3) ENT 2004: Insects and Human Society
- ___ (3) ENT/PPWS 4264: Pesticide Usage
- ___ (3) HORT 2234: Envir Factors in Hort
- ___ (3) HORT 2184: Plants, Places, Culture Globally
- ___ (3) HORT 2234: Envir Factors in Hort
- ___ (3) HORT 4064: Soil Microbiology*
- ___ (3) PPWS 2754: Weeds that Shape our World
- ___ (3) PPWS 4114: Microbe Forensics/Biosecurity*
- ___ (3) PPWS 4154: Plant Problem Diagnosis*
- ___ (3) PPWS 4604: Biological Invasions*
- ___ (3) SPES 2004: Cannabis Science, Industry & Culture
- ___ (3) SPES 2244: World Crops: Food and Culture
- ___ (1-3) SPES 4964, 4974, 4994, or 3954: Field Study, Independent Study, Undergraduate Research, Study Abroad (only up to 3 credits total)

Free Electives (to reach 120 Total Credit Hours)

___ () _____

Approved Minors

- Agribusiness and Entrepreneurship (ABAE)
- Agricultural and Applied Economics (AEMN)
- Animal and Poultry Sciences
- Civic Agriculture and Food Systems

- Dairy Science
- Development and International Trade (DAIT)
- Entomology
- Environmental Economics
- Environmental Science
- Global Food Security and Health
- Horticulture
- Food Science & Technology
- Leadership & Social Change
- Plant Health Sciences
- Turfgrass Management
- Wetland Science

Notes:

- Total Hours Required: 120
- *Prerequisites: Some courses listed on this checksheet may have pre-/co-requisites; please consult the University Course Catalog or check with your advisor
- Satisfactory Progress:
 - By the end of the academic year in which the student has attempted 60 credits (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" toward a BS PLSC degree will include:
 - Passing the following:
 - At least 24 credits that apply to the Pathways to General Education
 - CHEM 1035 and 1036
 - ALS 1234, CSES/ENSC 3114 and CSES/ENSC 3124
 - 6 credits of Math
- GPA Requirements:
 - Overall GPA: 2.0 (each semester in order to be in good academic standing)
 - In-major GPA: 2.0 (by the time the student graduates)
 - Includes classes in: CSES, HORT, and PPWS
- Language Study Requirement - Students who do not complete two years of a single foreign or classical language or American Sign Language in high school, may do so by taking six credits of college-level foreign or classical language or American Sign Language. The six credits used to meet this requirement may not be used to satisfy the minimum number of credits required for graduation.