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

Pathways to General Education (42-45 credits)

Concept 1 – Discourse
1F – Foundational
____ (3) ENGL 1105 First-Year Writing
____ (3) ENGL 1106 First-Year Writing
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
____ (3)_____
Concept 4 – Reasoning in the Natural Sciences (6 credits)
____ (3) CHEM 1035: General Chemistry*
____ (3) CHEM 1036: General Chemistry*
Concept 5 – Quantitative and Computational Thinking
5f – Foundational (8 credits)
____ (3) MATH 1025: Elementary Calculus
____ (3) MATH 1026: Elementary Calculus
5a – Advanced/Applied (3 credits)
____ (3) STAT 3615 Biological Statistics*
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 (3 credits) (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

Plant Science Major Requirements (minimum 24-26 credits)

__ (3 or 4) BCHM 3114 Biochem for Biotech*
or BCHM 4115: General Biochemistry*
__ (1) CHEM 1045: General Chemistry Laboratory*
__ (1) CHEM 1046: General Chemistry Laboratory*
__ (3) CHEM 2535: Organic Chemistry*
__ (1) CHEM 2545: Organic Chemistry Laboratory*
__ (3) CHEM 2536: Organic Chemistry*
__ (1) CHEM 2546: Organic Chemistry Laboratory
__ (2 or 3) CSES 2444: Agronomic Crops
or HORT 2224: Horticulture Science & Industry
__ (3) CSES 4144 Plant Breeding and Genetics
__ (3) CSES 4344 Crop Physiology and Ecology

Plant Science Major Restricted Electives (Choose 15 credits from list below)

__ (3) ALS 3404: Ecological Agriculture: Theory and Practice
__ (3) BCHM 2114: Biochemical Calculations*
__ (3) BCHM/APSC 4054: Genomics*
__ (3) BCHM 4116: General Biochemistry*
__ (3) BIOL 2004: Genetics*
__ (3) BIOL 2104: Cell and Molecular Biology
__ (3) BIOL 2134: Cell Function Differentiation*
__ (3) BIOL 4134: Evolutionary Genetics *

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__ (3) BIOL 4334: Chemical Ecology*
__ (3) CSES 2224: Foundations of Precision Agriculture
__ (3) CSES 2244: Ag Global Food Sec and Health
__ (3) CSES 3134: Soils in the Landscape*
__ (3) CSES 4064: Soil Microbiology*
__ (3) CSES 4224: Applied Concepts in Precision Ag
__ (3) CSES/FREC 4334: Agroforestry
__ (3) CSES 4544: Forage Crop Ecology
__ (3) HORT 2184: Plants Places Culture Globally
__ (3) HORT 2234: Envir Factors in Hort
__ (3) HORT 4334: Greenhouse & CEA Management
__ (3) HORT 4794: Medicinal Plants and Herbs*
__ (3) PPWS 2004: Mysterious Mushrooms & Molds
__ (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*
__ (1-3) PPWS 4994: Undergraduate Research
__ (3) SPES 2244: World Crops: Food & 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)
___ ( ) _____

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
  - 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.