

B.S. Integrated Plant Sciences
Landscape, Nursery & Greenhouse Management Major
Advising Sheet 2023-2024

University Common Requirements (UCORE):

34 credit minimum required, with no more than three, three-credit courses within the major.

UCORE	Credits	Term	Grade	Offered
First Year Experience (3 credits) [ROOT]				
HISTORY 105/305: Roots of Contemporary Issues	3			F, S, SS
Written Communication (3) [WRTG]				
ENGLISH 101: Introductory Writing (or based on placement)	3			F, S, SS
Communication (3) [COMM] [WRTG]				
H_D 205: Dev. Effective Com. or COM 102: Com. in Info. Soc.	3 - 4			F, S, SS
Quantitative Reasoning (3) [QUAN]				
STAT 212: Intro to Stat Methods	4			F, S, SS
Inquiry in the Social Sciences (3) [SSCI]				
Elective	3			F, S, SS
Inquiry in the Humanities (3) [HUM]				
Elective	3			F, S, SS
Inquiry in the Creative and Professional Arts (3) [ARTS]				
Elective	3			F, S, SS
Diversity (3) [DIVR]				
Elective	3			F, S, SS
Equity and Justice (3) [EQJS]				
Elective	3			F, S, SS
Integrative Capstone (3) [CAPS]				
HORT 425: [M]Trends in Plant Science	3			S
Inquiry in the Natural Sciences (7 minimum) [BSCI] [PSCI] [SCI]				
BIOLOGY 106: Intro to Organismal or BIOLOGY 107: Intro to Cell Bio & Genetics or BIOLOGY 120: Intro to Botany	4			BIO 106: F, S, SS BIO 107: F, S, SS BIO 120: F
CHEM 101: Intro Chem or CHEM 105: Prin. Of Chem I I	4			F, S, SS

Integrated Plant Sciences Core Requirements:

Course	Credits	Term	Grade	Offered
BIOLOGY 106, BIOLOGY 107, or BIOLOGY 120	4			See above
CHEM 102: Chem Related to Life Sci or CHEM 106: Princ. Of Chem II	4			CHEM 102: S,SS CHEM 106: F,S,SS
HORT/CROP_SCI 102: Cultivated Plants	3			F, S online
HORT/CROP_SCI 202: Crop Growth and Development	4			S
SOIL_SCI 201: Soil: A Living System	3			F, S
ENTOM 343: [M] General Entomology	3			F
ENTOM 351: Ecological & Integrated Pest Management	3			S
PL_P 300: Diseases of Fruit Crops or PL_P 429: General Plant Pathology	2 - 3			PL_P 300: F even PL_P 429: F
CROP_SCI 411: [M] Crop Environmental Interactions or HORT 416: Adv. Hort Crop Physiology	3			CROP 411: F HORT 416: S

Landscape, Nursery & Greenhouse Management Major Requirements

Course	Credits	Term	Grade	Offered
HORT 330: Landscape Plants for Urban and Comm. Environ.	3			F
HORT 331: Landscape Plant Installation and Management	3			S
HORT 351: Plant Propagation	4			S
HORT 357 + 358: Greenhouse Management + Lab	3 + 1			S
HORT 399: Professional Work/Research Experience	1			F, S, SS
SOIL_SCI 441: Soil Fertility or AFS/SOILS 302: [M] Intro to Agroecology	3			S
Horticulture Electives (see list below)	9			
Advanced Plant Science Electives (see lists below)	6			

Horticulture Electives

HORT 310: Pomology (3)(F); HORT 313: Viticulture (3)(F); HORT 320: Olericulture (3)(F odd-P, even-UI**); HORT 345 Crop Plant Genetics (3)(f); CROP_SCI 301: Turfgrass Management (3)(F even); CROP_SCI 305: Ecology & Management of Weeds (3)(F); CROP_SCI 401: [M] Turfgrass Science (3)(S even; PLSc 340 & 341: Nursery Management and lab (3 + 1) (F even); PLSc 490: Potato Science (3) (S even); SOIL_SCI 101: Organic Gardening and Farming (3) (F, S); Soil_Sci 443: Soil Mgmt for Sustainable and Organic Farming Systems (3)(F odd)

Advanced Plant Science Electives

HORT 418: [M] Post-Harvest Biology & Technology (3)(F); CROP_SCI/HORT 445: [M] Plant Breeding (4)(S); BIOLOGY 301: General Genetics (4)(F,S); BIOLOGY 332: Systematic Botany (4)(S even); BIOLOGY 372: [M] General Ecology (4)(F,S); BIOLOGY 409: Plant Anatomy (4)(F); BIOLOGY 462: Community Ecology (3)(F); HORT 480: Plant Genomics and Biotech (3)(F even); SOE 300: Natural Resource Ecology (3)(F,S); SOE 450: [M] Conservation Biology (3)(S); SOE 454: Restoration Ecology (3)(F); SOE 464, Landscape Ecology (3)(S)

Open Electives:

Course*	Credits	Term	Grade	Offered

CHECK LIST FOR THIS MAJOR:

Writing in the Major (2 [M] courses)	
Writing Portfolio	
40 Upper Division Credits	
UCORE	39-40 credits
IPS Core	29-30 credits
Landscape, Nursery & Greenhouse Management Major	33 credits
Open Electives	17-19 credits
Total (at least 120 credits)	

NOTES:

*Electives are chosen by the student and are needed to reach the minimum 120 credits to graduate.

Electives can be used towards a minor. Contact an advisor or the department for more information on courses for your minor interest.

**PLSC 451 offered at U of I in the fall of even years is the equivalent to HORT 320.

U of I to WSU Co-op courses:
PLSC 340 –Nursery Management
PLSC 341 – Nursery Management Lab
PLSC 451 – Vegetable Crops
PLSC 490 – Potato Science

Last Updated 5/11/2023

SAMPLE FOUR-YEAR PLAN

	Fall Semester	Hours	Spring Semester	Hours
First Year	HORT/ CROP_SCI 102 BIOLOGY 106, 107, or 120 [BSCI] ⁵ HISTORY 105 [ROOT] ⁵ H_D 205 or COM 102 [COMM] ⁵ Elective	3 4 3 3 or 4 1 or 2 ⁴	HORT/CROP_SCI 202 CHEM 101 or 105 [PSCI] ⁵ ENGLISH 101 [WRTG] ⁵ STAT 212, MATH 140, 171, or 202 [QUAN] ⁵	4 4 3 3 or 4
Second Year	CHEM 102 or 106 HORT 330 SOIL_SCI 201 Humanities [HUM] ⁵ Elective ⁴	4 3 3 3 3	BIOLOGY 106 or 107 HORT 331 Horticulture Elective ^{1,5} Equity and Justice [EQJS] ⁵ Elective ⁴ Complete Writing Portfolio	4 3 3 3 3
Third Year	ENTOM 343 [M] Creative and Professional Arts [ARTS] ⁵ Diversity [DIVR] ⁵ Horticulture Elective ^{1,5} Elective	3 3 3 3 2 or 3 ⁴	ENTOM 351 HORT 357 + 358 HORT 351 Social Science Elective [SSCI] Elective ⁴	3 4 4 3 2
Summer Session	HORT 399	1		
Fourth Year	PL_P 300 or PL_P 429 Advanced Plant Science Elective ^{2,5} Horticulture Elective ¹ Elective	2 or 3 3 3 6 or 7 ⁴	HORT 416 ³ HORT 425 [M][CAPS] SOIL_SCI 302 or 441 Advanced Plant Science Elective ^{2,5}	3 3 3 3

Footnotes

¹ Horticulture Electives (9 credits minimum): CROP SCI 301, 305, 401 [M], 443; HORT 310, 313, 320; 345; Soil_Sci 101; PlSc 340 & 341, or 490 or as approved by advisor.

² Advanced Plant Science Electives (6 credits): BIOLOGY 301, 332, 372 [M], 409, 420, 462; HORT 418 [M], 445 [M], 480; SOE 300, 450 [M], 454 [M], 464 or as approved by advisor

³ CROP_SCI 411 [M] can be taken in the fall as an alternative to HORT 416.

⁴ Take number of elective credits required to total 120 credits

⁵ UCORE, Horticulture electives, and Advanced Plant Science electives can be moved to different semesters to accommodate courses chosen