

B.S. Integrated Plant Sciences  
Fruit and Vegetable 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
<b>First Year Experience (3 credits) [ROOT]</b>				
HISTORY 105/305: Roots of Contemporary Issues	3			F, S, SS
<b>Written Communication (3) [WRTG]</b>				
ENGLISH 101: Introductory Writing (or based on placement)	3			F, S, SS
<b>Communication (3) [COMM] [WRTG]</b>				
H_D 205: Dev. Effective Com. or COM 102: Com. in Info. Soc.	3 - 4			F, S, SS
<b>Quantitative Reasoning (3) [QUAN]</b>				
STAT 212: Intro to Stat Methods	4			F, S, SS
<b>Inquiry in the Social Sciences (3) [SSCI]</b>				
ECONS 101 Fundamentals of Microeconomics	3			F, S, SS
<b>Inquiry in the Humanities (3) [HUM]</b>				
Elective	3			F, S, SS
<b>Inquiry in the Creative and Professional Arts (3) [ARTS]</b>				
Elective	3			F, S, SS
<b>Diversity (3) [DIVR]</b>				
Elective	3			F, S, SS
<b>Equity and Justice (3) [EQJS]</b>				
Elective	3			F, S, SS
<b>Integrative Capstone (3) [CAPS]</b>				
HORT 425: [M]Trends in Plant Science	3			S
<b>Inquiry in the Natural Sciences (7 minimum) [BSCI] [PSCI] [SCI]</b>				
BIOLOGY 107: Intro to Cell and Genetic Bio	4			F, S, SS
CHEM 101 Intro to Chem or CHEM 105: Principles Of Chem I	4			F, S, SS

**Integrated Plant Sciences Core Requirements:**

Course	Credits	Term	Grade	Offered
BIOLOGY 106: Intro to Organismal or BIOLOGY 120: Intro to Botany	4			BIO 106: F, S, SS BIO 120: F
CHEM 102: Chem Related to Life Sciences or CHEM 106: Princ. Of Chem II	4			CHEM 102: F, 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
HORT 416: Adv. Hort Crop Physiology or CROP_SCI 411: [M] Crop Environmental Interactions or	3			HORT 416: S CROP_SCI 411: F

**Fruit and Vegetable Management Major Requirements:**

Course	Credits	Term	Grade	Offered
HORT 310: Pomology	3			F
HORT 313: Viticulture	3			F
HORT 320: Olericulture**	3			F
HORT 351: Plant Propagation	4			S
HORT 399: Professional Work Experience	1			F, S, SS
HORT 418: [M] Postharvest Biology and Technology	3			F
SOIL_SCI 441: Soil Fertility	3			S
BIOLOGY 420: Intro to Plant Physiology	3			F
Advanced Fruit or Vegetable Elective (see list below)	3			
Pest Management Elective (see list below)	2-3			
Environmental Horticulture Elective (see list below)	3			
Sustainability Elective (see list below)	2-3			

**Advanced Fruit or Vegetable Electives (3 credits)**  
 HORT 413: Advanced Viticulture (3)(S); HORT 421: Fruit Crops Mgmt (3)(S even); HORT 480: Plant Genomics and Biotechnology (3)(F even); HORT 490: Potato Science (3)(F even-UI)  
**Pest Management Electives (2-3 credits, in addition to IPS Core Requirements)**  
 CROP\_SCI 305: Ecology & Mgmt of Weeds (3)(F); IPM 452: Pesticides & Environment (3)(S); PL\_P 300: Diseases of Fruit Crops (2)(F even); PL\_P 429: General Plant Path (3)(F)  
**Environmental Horticulture Electives (3 credits)**  
 HORT 330: Landscape Plants for Urban and Community Environments (3)(F); HORT 331: Landscape Plant Installation & Mgmt (3)(S); HORT 332: Interior Landscaping (3)(F); HORT 357: Greenhouse Mgmt & Crop Prod (3)(S); PLSC 340: Nursery Mgmt (3)(UI)  
**Sustainability Electives (2-3 credits)**  
 BIOLOGY 330: Prin of Conserv. (3)(S); BIOLOGY 372: Gen Ecol (4)(F,S); SOE 110: Env, Human Life & Sus. (4)(F,S,SS); SOE 285: The Science and Policy of Climate Change (3)(F,S); SOIL\_SCI 101: Organic Gardening & Farming (3)(F,S); SOIL\_SCI 302: [M] Intro to Agroecology (3)(S); SOIL\_SCI 480: Practicum in Org. Ag (2)

**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
Fruit and Vegetable Management Major	33-35 credits
Open Electives	15-19 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*

*Newer Sustainability electives than can also be used:  
 ECONS 326 Aspects of Sustainable Dev*

*Last Updated 5/11/203*

**Open Electives:**

Course*	Credits	Term	Grade	Offered

SAMPLE FOUR-YEAR PLAN

	Fall Semester	Hours	Spring Semester	Hours
<b>First Year</b>	CHEM 101 or 105 [PSCI] HORT/CROP_SCI 102 ENGLISH 101 [WRTG] <sup>7</sup> STAT 212, MATH 140, 171, or 202 [QUAN]	4 3 3 3 or 4	CHEM 102 or 106 HORT/CROP_SCI 202 HISTORY 105 [ROOT] <sup>7</sup> Humanities [HUM] <sup>7</sup>	4 4 3 3
<b>Second Year</b>	BIOLOGY 106 or 120 SOIL_SCI 201 H_D 205 or COM 102 [COMM] <sup>7</sup> Creative and Professional Arts [ARTS] <sup>7</sup> Diversity [DIVR] <sup>7</sup>	4 3 3 or 4 3 3	BIOLOGY 107 [BSCI] <sup>7</sup> HORT 351 ECONS 101 or 102 [SSCI] <sup>7</sup> Sustainability Elective <sup>1,7</sup> Elective  <b>Complete Writing Portfolio</b>	4 4 3 2 or 3 2 or 3 <sup>6</sup>
<b>Third Year</b>	HORT 310 HORT 313 HORT 320 ENTOM 343 [M] BIOLOGY 420	3 3 3 3 3	ENTOM 351 SOIL_SCI 441 Environmental Hort Elective <sup>2,7</sup> Equity and Justice [EQJS] <sup>7</sup> Elective	3 3 3 3 3
<b>Summer Session</b>	HORT 399	1		
<b>Fourth Year</b>	HORT 418 [M] PL_P 300 <sup>8</sup> or 429 Pest Management Elective <sup>3,7</sup> Elective	3 2 or 3 2 or 3 3 or 8 <sup>6</sup>	HORT 425 [M][CAPS] HORT 416 <sup>4</sup> Advanced Fruit or Veg. Elective <sup>5,7</sup> Elective	3 3 3 4 or 6 <sup>6</sup>

Footnotes

- <sup>1</sup> Sustainability Electives (2-3 credits): BIOLOGY 330, BIOLOGY 372, SOE 110, SOE 285, SOIL\_SCI 101, SOIL\_SCI 302, SOIL\_SCI 480, and/or consult with your advisor.
- <sup>2</sup> Environmental Horticulture Electives (3 credits): HORT 330, HORT 331, HORT 332, HORT 357, PLSC 340 (U of I), and/or consult with your advisor.
- <sup>3</sup> Pest Management Electives (2-3 credits): CROP\_SCI 305, IPM 452, PL\_P 300, PL\_P 429, and/or consult with your advisor.
- <sup>4</sup> CROP\_SCI 411 can be taken in the fall as an alternative to HORT 416.
- <sup>5</sup> Advanced Fruit or Vegetable Electives (3 credits): HORT 413, HORT 421, HORT 480, PLSC 490, and/or consult with your advisor.
- <sup>6</sup> Take number of elective credits to total 120 credits
- <sup>7</sup> [UCORE] and Topic-specific electives can be moved to different semesters to fit the courses chosen. For example, Environmental Hort elective is shown in spring, third year, but could be moved to a fall semester if HORT 330 (a fall only course) is chosen.
- <sup>8</sup> PL\_P 300 is only offered Fall Even years. Please, plan accordingly