

Horticulture Science: Plant Science

<https://ag.purdue.edu/oap/Pages/major.aspx>

120 credits required for graduation

Credits	Course number	Course Title
Departmental/Program Major Courses (114 credits)		
Required Major Courses (16 credits)		
3	HORT 10100	Fundamentals of Horticulture
3	HORT 20100	Plant Propagation
4	HORT 30100	Plant Physiology
3	HORT 49100	Plant Science Research
1	HORT 49200	Horticultural Science Capstone Seminar
1	HORT 51300	Nutrition of Horticultural Crops
1	HORT 54100	Postharvest Technology of Fruits and Vegetables
Other Departmental /Program Course Requirements (98 credits) (See Advising Resources)		
0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University
0.5	AGR 12000	Introduction to Horticulture and Landscape Architecture
3	AGRY 25500	Soil Science
3	AGRY 32000	Genetics
1	AGRY 32100	Genetics Laboratory
3	BCHM 30700	Biochemistry
1	BCHM 30900	Biochemistry Laboratory
4	BTNY 11000	Introduction to Plant Science
3	BTNY 30200	Plant Ecology
3	BTNY 30500	Fundamentals of Plant Classification
4	BTNY 31600	Plant Anatomy
4	CHM 11500	General Chemistry (satisfies Science #1 for core)
4	CHM 11600	General Chemistry (satisfies Science #2 for core)
4	CHM 25700	Organic Chemistry
1	CHM 25701	Organic Chemistry Laboratory
3	MA 16010	Applied Calculus I (satisfies Quantitative Reasoning for core)
3	MA 16020	Applied Calculus II
3	STAT 50300	Statistics Selective
3	-----	Horticultural Production Selective
3	-----	Physics Selective
3	-----	Concentration Selective
3	-----	Concentration Selective
3	-----	Concentration Selective
3	-----	Concentration Selective
3	-----	Concentration Selective
3	-----	Concentration Selective
3	-----	Economics Selective
3	-----	UCC Humanities Selective (satisfies Human Cultures Humanities for core)
1	-----	UCC Science, Technology, & Society Selective (satisfies Science, Technology & Society Selective for core)
3	-----	Humanities or Social Science Selective
3	-----	Humanities or Social Science Selective
3	-----	Humanities or Social Science Selective (30000+ level)
4	ENGL 10600	First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
3	COM 11400 or	Fundamentals of Speech Communication or Science Writing and Presentation (satisfies
3	COM 21700	Oral Communication for core)
3	-----	Written or Oral Communication Selective
Electives (6 credits)		
6	-----	Elective

University Core Requirements:

Human Cultures Humanities:	_____	Science, Technology, and Society:	_____
Human Cultures Behavioral/Social Science:	_____	Written Communication:	_____
Information Literacy:	_____	Oral Communication:	_____
Science #1:	_____	Quantitative Reasoning:	_____
Science #2:	_____		

120 semester credits required for Bachelor of Science degree.
2.0 GPA required for Bachelor of Science degree.

College of Agriculture & University Level Requirements:

2.0 GPA required for Bachelor of Science degree.
32 Upper division credits taken from Purdue
9 credits International Understanding: _____
3 credits Multicultural Awareness: _____
9 credits of Hum and/or Social Sciences outside the College of Agriculture: _____

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Credits	Course Number	Course Title	Prerequisites	Credits	Course Number	Course Title	Prerequisites
Fall 1st Year				Spring 1st Year			
0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University		4	CHM 11600	General Chemistry	CHM 11500
0.5	AGR 12000	Introduction to Horticulture and Landscape Architecture		4	ENGL 10600	First-year Composition	
4	BTNY 11000	Introduction to Plant Science		3	HORT 10100	Fundamentals of Horticulture	
4	CHM 11500	General Chemistry		3	MA 16020	Applied Calculus II	MA 16010
3	COM 11400 or COM 21700	Fundamentals of Speech or Science Writing and Presentation		1	-----	Elective	
3	MA 16010	Applied Calculus I	ALEKS 75+				
15				15			
Fall 2nd Year				Spring 2nd Year			
3	AGRY 25500	Soil Science	CHM 11600	3	BCHM 30700	Biochemistry	CHM 25700
4	BTNY 31600	Plant Anatomy	BTNY 11000	1	BCHM 30900	Biochemistry Laboratory	CHM 25700
4	CHM 25700	Organic Chemistry	CHM 11600	3	BTNY 30200	Plant Ecology	BTNY 11000
1	CHM 25701	Organic Chemistry Laboratory	CHM 25700 (may be taken concurrently)	3	HORT 20100	Plant Propagation	BTNY 11000 or HORT 10100
3	-----	UCC Humanities Selective		3	-----	Physics Selective	
				2	-----	Concentration Selective	
15				15			
Fall 3rd Year				Spring 3rd Year			
3	BTNY 30500	Fundamentals of Plant Classification	BTNY 11000	3	AGRY 32000	Genetics	BTNY 11000 and HORT 30100
4	HORT 30100	Plant Physiology	BTNY 11000 and CHM 25700	1	AGRY 32100	Genetics Laboratory	AGRY 32000
3	-----	Concentration Selective		3	STAT 50300	Statistical Methods for Biology	MA 16020
3	-----	Economics Selective		3	-----	Concentration Selective	MA 16020
3	-----	Humanities or Social Sciences Selective		3	-----	Humanities or Social Sciences Selective	
				3	-----	Written or Oral Communication Selective	
16				16			
Fall 4th Year				Spring 4th Year			
3	HORT 49100	Plant Science Research		1	HORT 49200	Horticultural Science Capstone Seminar	HORT 49100
3	-----	Horticultural Production Selective		1	HORT 51300	Nutrition of Horticultural Crops	
3	-----	Humanities or Social Sciences Selective (30000+ level)		1	HORT 54100	Postharvest Technology of Fruits and Vegetables	
3	-----	Concentration Selective		7	-----	Concentration Selective	
1	-----	UCC Science, Technology, & Society Selective		3	-----	Elective	
2	-----	Elective					
15				13			

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The highlighted course is considered critical; timely progress toward the degree depends upon steady progress through each course in the plan of study, but this course, in particular, should be completed by the semester indicated.

Consultation with an advisor may result in an altered plan customized for an individual student.