

Name: _____ PUID: _____ Date: _____

Required Major Courses (16 credits)

- _____ (3) HORT 10100^{cc} Fundamentals of Horticulture
- _____ (3) HORT 20100^{cc} 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 Academic Programs
- _____ (3) AGRY 25500 Soil Science
- _____ (3) AGRY 32000 Genetics
- _____ (1) AGRY 32100 Genetics Laboratory
- _____ (3) BCHM 30700^{cc} 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^{cc} General Chemistry (*satisfies Science #1 for core*)
- _____ (4) CHM 11600^{cc} General Chemistry (*satisfies Science #2 for core*)
- _____ (4) CHM 25700^{cc} 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 Statistical Methods for Biology
- _____ (3) Horticultural Production Selective⁷
- _____ (3) Physics Selective⁶
- _____ (2) Concentration Selective⁵
- _____ (3) Concentration Selective⁵
- _____ (3) Concentration Selective⁵
- _____ (3) Concentration Selective⁵
- _____ (7) Concentration Selective⁵
- _____ (3) Economics Selective⁸
- _____ (3) UCC Humanities Selective (*satisfies Human Cultures Humanities for core*)¹
- _____ (1) UCC Science, Technology & Society Selective (*satisfies Science, Technology & Society Selective for core*)²
- _____ (3) Humanities or Social Sciences Selective⁴
- _____ (3) Humanities or Social Sciences Selective⁴
- _____ (3) Humanities or Social Sciences Selective (30000+ level)⁴
- _____ (4) ENGL 10600 First-Year Composition (*satisfies Written Communication for core*) (*satisfies Information Literacy Selective for core*)
- _____ (3) COM 11400 Fundamentals of Speech Communication or COM 21700 Science Writing and Presentation (*satisfies Oral Communication for core*)
- _____ (3) Written or Oral Communication Selective³

Electives (6 credits)

- _____ (6) Electives

University Core Requirements (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Sciences	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

College of Agriculture & University Level Requirements (https://ag.purdue.edu/oap/Pages/core_requirements.aspx)

3 credits Multicultural Awareness	<input type="checkbox"/>	_____			
9 credits International Understanding	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
9 credits of Humanities and/or Social Sciences outside the College of Agriculture	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
3 credits of Humanities and/or Social Sciences at 30000 or higher	<input type="checkbox"/>	_____			

Horticulture: Plant Science

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		4	CHM 11600 ^{CC} General Chemistry	CHM 11500
0.5	AGR 12000 Introduction to Horticulture and Landscape Architecture Academic Programs		4	ENGL 10600 First-Year Composition	
4	BTNY 11000 Introduction to Plant Science		3	HORT 10100 ^{CC} Fundamentals of Horticulture	
4	CHM 11500 ^{CC} General Chemistry		3	MA 16020 Applied Calculus II	MA 16010
3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation		1	Elective	
3	MA 16010 Applied Calculus	ALEKS 75+			
15			15		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	AGRY 25500 Soil Science	CHM 11100	3	BCHM 30700 ^{CC} Biochemistry	CHM 25700
4	BTNY 31600 Plant Anatomy	BTNY 11000	1	BCHM 30900 Biochemistry Laboratory	CHM 25700
4	CHM 25700 ^{CC} Organic Chemistry	CHM 11600	3	BTNY 30200 Plant Ecology	BTNY 11000
1	CHM 25701 Organic Chemistry Laboratory	CHM 25700	3	HORT 20100 ^{CC} Plant Propagation	BTNY 11000 or HORT 10100
3	UCC Humanities Selective ¹		3	Physics Selective ⁶	
			2	Concentration Selective ⁵	
15			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
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 ⁵		3	STAT 50300 Statistical Methods for Biology	MA 16020
3	Economics Selective ⁸		3	Concentration Selective ⁵	
3	Humanities or Social Sciences Selective ⁴		3	Humanities or Social Sciences Selective ⁴	
			3	Written or Oral Communication Selective ³	
16			16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	HORT 49100 Plant Science Research		1	HORT 49200 Horticultural Science Capstone Seminar	HORT 49100
3	Horticultural Production Selective ⁷		1	HORT 51300 Nutrition of Horticultural Crops	
3	Humanities or Social Sciences Selective (30000+ level) ⁴		1	HORT 54100 Postharvest Technology of Fruits and Vegetables	
3	Concentration Selective ⁵		7	Concentration Selective ⁵	
1	UCC Science, Technology & Society Selective ²		3	Elective	
2	Elective				
15			13		

1) 120 credits listed above are required for Bachelor of Science degree.

2) 2.0 Graduation GPA required for Bachelor of Science degree.

3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University, West Lafayette.

4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).

5) CC = is considered a critical course

See next page for all supplemental information

The student is ultimately responsible for knowing and completing all degree requirements.
myPurdue Plan is knowledge source for specific requirements and completion

HOSC/PLSC Supplemental Information

All prerequisites must be met

¹University Core Curriculum Humanities Selective (3 credits)

See approved Humanities list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

²University Core Science, Technology & Society Selective (1-3 credits)

See approved Science, Technology & Society list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

³Written or Oral Communication Selective (minimum 3 credits)

AGR 20100 Communication Across Culture
ASL 10000-59900

COM 20000-59900
ENGL 20000-59900

YDAE 44000 Methods of Teaching Agriculture Education

⁴Humanities and Social Sciences Selective (9 credits)

(9 credits of Humanities and/or Social Sciences outside the College of Agriculture)

See approved list at: https://ag.purdue.edu/oap/pages/core-social_humanities.aspx

⁵Concentration Selectives (18 credits)

AGRY 30600 Seed Technology
AGRY 34900 Soil Ecology
AGRY 36500 Soil Fertility
AGRY 48000 Plant Genetics
AGRY 51500 Plant Mineral Nutrition
AGRY 52000 Principles and Methods of Plant Breeding
BCHM 46200 Metabolism
BCHM 56100 General Biochemistry I
BCHM 56200 General Biochemistry II
BCHM 57200 Advanced Biochemical Techniques
BIOL 22100 Introduction to Microbiology
BIOL 23100 Biology III: Cell Structure and Function
BIOL 41500 Introduction to Molecular Biology
BTNY 20700 The Microbial World
BTNY 20900 Plant Diversity
BTNY 21100 Plants and the Environment

BTNY 30100 Introductory Plant Pathology
BTNY 30400 Introductory Weed Science
BTNY 35000 Biotechnology in Agriculture
BTNY 42000 Plant Cellular and Developmental Biology
BTNY 55000 Biology of Fungi
BTNY 55200 Molecular Approaches in Plant Biology
BTNY 55300 Plant Growth and Development
HORT 55300 Plant Growth and Development
HORT 21700 Woody Landscape Plants
HORT 21800 Herbaceous Landscape Plants
HORT 42000 Ornamental Plant Production
HORT 42100 Fruit Production
HORT 42200 Vegetable and Herb Production
PSY 31800 Problem Solving and Decision Making
PSY 33300 Motivation

⁶Physics Selective (3 credits)

PHYS 17200 Modern Mechanics
PHYS 21400 The Nature of Physics
PHYS 22000 General Physics

PHYS 22100 General Physics

⁷Horticultural Production Selective (3 credits)

HORT 40300 Tropical Horticulture
HORT 42000 Ornamental Plant Production

HORT 42100 Fruit Production
HORT 42200 Vegetable and Herb Production

⁸Economics Selective (3 credits)

AGEC 20300 Introductory Microeconomics for Food and Agribusiness
AGEC 20400 Introduction to Resource Economics and Environmental Policy
AGEC 21700 Economics

ECON 21000 Principles of Economics
ECON 25100 Microeconomics
ECON 25200 Macroeconomics