

Horticulture

Degree Offered

- Associate of Arts

Nature of Program

Horticulture is the science of production, processing, and marketing of fruit, vegetable, greenhouse and nursery crops. Students will study physiology, culture, harvest, quality control, sales and utilization of horticulture crops.

Career Opportunities

The program prepares students to become employed as orchard managers, vegetable farmers, greenhouse managers, landscape contractors, golf course managers, park horticulturists, seed and supply representatives, and state and federal nursery inspectors.

FACULTY

CHAIR

- Dr. Heidi B. Samuels - Ed.D.
West Virginia University

ASSOCIATE PROFESSOR

- Dr. Donna Ballard - Ph.D.
West Virginia University

Admissions Requirements

Entering freshmen are admitted directly into the major.

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (<http://registrar.wvu.edu/gef>)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

General Education Foundations

F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102 or ENGL 103	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Skills		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)		9
Total Hours		31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Curriculum Requirements

GEF Elective Requirements (5, 6, or 7)		3
ENGL 101 & ENGL 102	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research (GEF 1)	6
MATH 124	Algebra with Applications (GEF 3)	3

2 Horticulture

BIOL 101 & BIOL 103	General Biology and General Biology Laboratory (GEF 8)	4
BIOL 102 & BIOL 104	General Biology and General Biology Laboratory (GEF 8)	4
CHEM 111	Survey of Chemistry (GEF 2)	4
CHEM 112	Survey of Chemistry (GEF 8)	4
A&VS 251	Principles of Animal Science	4
AGEE 110 or CS 101	Microcomputer Applications in Agricultural Education Intro to Computer Applications	3
AGRL 191	First-Year Seminar	1
AGRL 112	Professions in Agriculture	1
ARE 150	Introductory Agricultural and Agribusiness Economics (GEF 4)	3
AGRN 202 & AGRN 203	Principles of Soil Science and Principles of Soil Science Laboratory	4
ARE 204	Agribusiness Management	3
HORT 220	General Horticulture	3
PLSC 206	Principles of Plant Science (GEF 8)	4
Tracks (Select one of the following):		6
Agroecology		
ARE 110	Agribusiness Accounting	
STAT 211	Elementary Statistical Inference	
Horticulture		
HORT 260	Woody Plant Materials	
HORT 262	Herbaceous Plant Materials	
Environmental Protection		
GEOL 101 & GEOL 102 or GEOL 110 & GEOL 111	Planet Earth and Planet Earth Laboratory Environmental Geoscience and Environmental Geoscience Laboratory	
STAT 211	Elementary Statistical Inference	
Entrepreneurship		
ARE 110	Agribusiness Accounting	
BUSA 201 or BUSA 202	Survey of Economics Survey of Accounting	

Total Hours

60

Suggested Plan of Study

First Year

Fall	Hours Spring	Hours
ENGL 101 (GEF 1)	3 ENGL 102 (GEF 1)	3
BIOL 101 & BIOL 103 (GEF 8)	4 BIOL 102 & BIOL 104 (GEF 8)	4
MATH 124 (GEF 3)	3 AGRL 112	1
AGRL 191	1 ARE 204	3
Track Course	3 HORT 220 GEF 5, 6, or 7	3
	14	17

Second Year

Fall	Hours Spring	Hours
CHEM 111 (GEF 2)	4 CHEM 112 (GEF 8)	4
PLSC 206 (GEF 8)	4 AGRN 202 & AGRN 203	4
ARE 150 (GEF 4)	3 A&VS 251	4

Track Course	3 AGEE 110 or CS 101	3
	14	15

Total credit hours: 60

Major Learning Outcomes

HORTICULTURE

- Diagnose and solve horticultural problems through the mastery of basic business concepts, a thorough understanding of genetics, plant physiology, plant pathology, soil science, microbiology, and entomology, and a demonstrated ability to manage and lead interdisciplinary teams
- Develop and implement sustainable and profitable horticultural production plans, systems, and uses to improve productivity and efficiency of horticultural and green industry operations
- Formulate answers to horticultural production, landscaping, and public green space problems in ways that fosters long term productivity, sustainability, and livable spaces