Horticulture, A.A.

Degree Offered
• Associate of Arts

Nature of the 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. Educational Leadership
  Year @ PSC (2006)

PROFESSOR
• Dr. Donna Ballard - Ph.D. Horticulture, Plant Science, Soil Science & Crop Production
  Year @ PSC (2007)

Admissions
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
    ENGL 101 & ENGL 102 Introduction to Composition and Rhetoric
    or ENGL 103 and Composition, Rhetoric, and Research

F2A/F2B - Science & Technology
    MATH 124 Accelerated Academic Writing

F3 - Math & Quantitative Reasoning
F4 - Society & Connections
F5 - Human Inquiry & the Past
F6 - The Arts & Creativity
F7 - Global Studies & Diversity
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)

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

<table>
<thead>
<tr>
<th>GEF Elective Requirements (5, 6, or 7)</th>
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<tbody>
<tr>
<td>ENGL 101 Introduction to Composition and Rhetoric</td>
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<td>&amp; ENGL 102 and Composition, Rhetoric, and Research (GEF 1)</td>
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<tr>
<td>MATH 124 Algebra with Applications (GEF 3)</td>
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<td>Course Title</td>
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<tr>
<td>BIOL 101 &amp; BIOL 103</td>
<td>General Biology 1 and General Biology Laboratory (GEF 8)</td>
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<td>BIOL 102 &amp; BIOL 104</td>
<td>General Biology 2 and General Biology Laboratory 1 (GEF 8)</td>
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<tr>
<td>CHEM 111 &amp; 111L</td>
<td>Survey of Chemistry 1 and Survey of Chemistry 1 - Laboratory (GEF 2)</td>
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<td>CHEM 112 &amp; 112L</td>
<td>Survey of Chemistry 2 and Survey of Chemistry 2 - Laboratory (GEF 8)</td>
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<tr>
<td>A&amp;VS 251</td>
<td>Principles of Animal Science</td>
</tr>
<tr>
<td>AGEE 110 or CS 101</td>
<td>Microcomputer Applications in Agricultural Education or Intro to Computer Applications</td>
</tr>
<tr>
<td>AGRL 191</td>
<td>First-Year Seminar</td>
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<tr>
<td>AGRL 112</td>
<td>Professions in Agriculture</td>
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<tr>
<td>ARE 150</td>
<td>Introductory Agricultural and Agribusiness Economics (GEF 4)</td>
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<tr>
<td>AGRN 202 &amp; AGRN 203</td>
<td>Principles of Soil Science and Principles of Soil Science Laboratory</td>
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<td>ARE 204</td>
<td>Agribusiness Management</td>
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<tr>
<td>HORT 220</td>
<td>General Horticulture</td>
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<tr>
<td>PLSG 206</td>
<td>Principles of Plant Science (GEF 8)</td>
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Tracks (Select one of the following): 6

- Agroecology
  - ARE 110 | Agribusiness Accounting | 3     |
  - STAT 211 | Elementary Statistical Inference | 3     |

- Horticulture
  - HORT 260 | Woody Plant Materials | 3     |
  - HORT 262 | Herbaceous Plant Materials | 3     |

- Environmental Protection
  - STAT 211 | Elementary Statistical Inference | 3     |
  - GEOL 101 & GEOL 102 | Planet Earth and Planet Earth Laboratory | 3     |

- Entrepreneurship
  - ARE 110 | Agribusiness Accounting | 3     |
  - ACCT 201 or ECON 202 | Principles of Accounting 1 or Principles of Macroeconomics | 3     |

Total Hours: 60

**Suggested Plan of Study**

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>ENGL 102 (GEF 1)</td>
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<td>AGRN 202</td>
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<td>AGRL 191</td>
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<td>ARE 204</td>
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<tr>
<td>Track Course</td>
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<td>HORT 220</td>
<td>3</td>
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<td>GEF 5, 6, or 7</td>
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**Second Year**

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<th>Spring</th>
<th>Hours</th>
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<tr>
<td>CHEM 111 &amp; 111L (GEF 2)</td>
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<td>CHEM 112 &amp; 112L (GEF 8)</td>
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<tr>
<td>PLSG 206 (GEF 8)</td>
<td>0 or 4</td>
<td>AGRN 202 &amp; AGRN 203</td>
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Horticulture, A.A.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>ARE 150 (GEF 4)</td>
<td>3</td>
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<tr>
<td>Track Course</td>
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</tr>
<tr>
<td>3 A&amp;VS 251</td>
<td>4</td>
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<tr>
<td>3 AGEE 110 or CS 101</td>
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<tr>
<td>Total credit hours:</td>
<td>56-60</td>
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**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