ABOUT THE PROGRAM

The degree in horticulture offers specialization in commercial crop production and marketing. Learning takes place in the classroom and on the farm—an outdoor living laboratory with fields, greenhouses, and the tools of modern agriculture, including state-of-the-art hydroponics systems. These settings provide experiential “hands-on” learning from seed to table. Cutting edge courses, frequent field trips, and an optional study abroad in Italy to learn about food and farms, are the hallmark of this program. The production of healthy and nutritious food is a necessity of life, and a degree in horticulture will provide a stable, enriching career.

CAREER OPPORTUNITIES

With 100 percent of our students having real-world, hands-on experience, graduates with a degree in horticulture are able to find positions:

- Working on fruit and vegetable farms
- At state and federal agencies such as the USDA
- In agricultural product sales and marketing
- In agricultural research and education
- At greenhouse and nursery production facilities, florists, and garden center management
- At non-profit organizations specializing in food and agricultural issues

Additionally, many students have gone on to graduate school leading to lab and field research in the plant sciences.

FACILITIES

- Vegetable production areas at both the DelVal and Roth farms including a high tunnel and a certified organic field and high tunnel at the Roth Farm
- Orchards at the campus and Gemmill farms
- Extensive collection of farm equipment and tools at all locations
- More than 12,000 feet of modern greenhouse space including extensive hydroponic equipment
- A 60-acre arboretum on main campus with landscape plantings, specimens, and gardens
- New Life Sciences Building with seven classrooms and four multipurpose labs

THE EXPERIENCE360 PROGRAM

The Experience360 Program (E360) is central to a DelVal education and embraces a full range of activities and opportunities that give our students well-rounded experiences that can’t be found anywhere else. This approach prepares our students for a life of meaningful work, service, and career growth. Integrating knowledge and experience, they’ll be prepared to put their skills into action as globally responsible citizens. One hundred percent of our students will gain real-world competencies through internships, career exploration, student research, study abroad, leadership development, community service or civic engagement.

ABOUT DELVAL

Delaware Valley University, an independent, comprehensive university of more than 1,000 acres in Bucks and Montgomery counties, features individualized attention and emphasizes experiential and interdisciplinary learning. Located in Doylestown, Pennsylvania, DelVal offers more than 25 undergraduate majors, six master’s programs, a doctoral program, and a variety of adult education courses.

“Dr. Ricotta is very knowledgeable in numerous fields of horticulture and inspires students like me each day. She always finds a way to apply what we are learning in the classroom to our environment.”
—Katie Beekman '17
# Horticulture Curriculum

This is a recommended course sequence. It is not a complete course listing and is subject to change.

## Freshman Year

### First Semester

- **BY 1116** - Biological Science I 3 credits
- **CH 1103** - General Chemistry I 3 credits
- **CH 1103L** - General Chemistry I Laboratory 1 credit
- **EN 1101** - English I 3 credits
- **FY 9900** - DelVal Experience I 1 credit
- Elective 1 credit
- **MP 1102** - College Algebra 3 credits or
- **MP 1203** - Elementary Functions 3 credits

Total: 15 Credits

### Second Semester

- **BY 1217** - Biological Science II 3 credits
- **CH 1203** - General Chemistry II 3 credits
- **CH 1203L** - General Chemistry II Laboratory 1 credit
- **EN 1201** - English II 3 credits
- **FY 9901** - DelVal Experience II 1 credit
- **MP 1203** - Elementary Functions 3 credits or
- **MP 1204** - Calculus I 4 credits

Total: 15-16 Credits

## Sophomore Year

### First Semester

- **BY 3007** - Entomology 3 Credits
- **CH 2003** - Principles of Organic Chemistry 3 credits
- **CH 2003L** - Principles of Organic Chemistry Laboratory 1 credit
- **EN 2028** - Introduction to Literature 3 credits
- **IT 1011** - Information Technology Concepts 1.5 credits
- **IT 1012** - Computer Applications 1.5 credits
- Major Course 3 credits

Total: 16 Credits

### Second Semester

- **LAES 2004** - Soils 3 credits
- **BA 2008** - Macroeconomics 3 credits
- **PS 2101** - Botany of Vascular Plants 3 credits
- **LA 2005** - Speech 3 credits
- Major Course or Elective 3 credits
- Major Course or Elective 2 credits

Total: 17 Credits

## Junior Year

### First Semester

- **BY 2003** - Genetics 3 credits
- **PS 3128** - Horticulture Techniques I 2 credits
- **PS 3005** - Plant Propagation 3 credits
- Humanities Area 3 credits
- Major Course 3 credits
- Elective 3 credits

Total: 17 Credits

### Second Semester

- **PS 2005** - Plant Physiology 3 credits
- **PS 3229** - Horticulture Techniques II 2 credits
- Humanities Area 3 credits
- Major Course 5 credits
- Elective 2 credits

Total: 15 Credits

### Senior Year

#### First Semester

- **PS 4005** - Plant Pathology 3 credits
- **LA 4037** - Non-Western Societies 3 credits
- Major Course 3 credits
- Electives 5 credits

Total: 15 Credits

#### Second Semester

- **PS 4204** - Plant Pest Management 3 credits
- **LA 1060** - Introduction to the Fine Arts 3 credits
- Social Science Area 3 credits
- Major Course 3 credits
- Elective 3 credits

Total: 15 Credits

Social Science area select one of the following:

- **LA 2012** - Introduction to Sociology 3 credits
- **LA 2036** - Introduction to Psychology 3 credits
- **LA 4203** - Social Psychology and Human Interaction 3 credits

Humans area select two courses from the following:

- **LA 2040** - Modern History of Western Societies 3 credits
- **LA 2042** - Introduction to Philosophy 3 credits
- **LA 2138** - History of Western Civilization I 3 credits
- **LA 1032** - American History and Government Since 1877 3 credits
- **LA 4127** - United States Foreign Policy 3 credits

Courses required for Commercial Crop Production and Marketing:

- **PS 2112** - Commercial Fruit Production 3 credits
- **PS 2211** - Commercial Vegetable Production 3 credits
- **PS 2235** - Principles of Sustainable Agriculture 2 credits
- **PS 3204** - Small Fruit Culture 3 credits
- **PS 3240** - Integrated Pest Management 3 credits
- **PS 4106** - Marketing Horticultural Products 2 credits
- **PS 4202** - Advanced Pomology 3 credits

Total: 19 Credits