



DELAWARE VALLEY
UNIVERSITY

HORTICULTURE (B.S.)

“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

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 will give you well-rounded experiences that can't be found anywhere else. This approach will prepare you for a life of meaningful work, service and career growth. Integrating knowledge and experience, you'll be prepared to put your 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.

PLANT
SCIENCE
88%
CLASS OF 2017
CAREER OUTCOMES



DELAWARE VALLEY UNIVERSITY

Office of Admission

700 E. Butler Ave. Doylestown, PA 18901

1.800.2.DELVAL (800.233.5825) | delval.edu

delval.edu/plant-science

HORTICULTURE

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CURRICULUM

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 - College Writing I 3 credits
FY 9900 - DeVal Experience I 1 credit
IT 1011 - Information Technology Concepts 1.5 credits and
IT 1012 - Computer Applications 1.5 credits or
IT 1021 - IT Infrastructure and Data Analysis 3 credits
Total: 14 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 - College Writing II 3 credits
FY 9901 - DeVal Experience II 1 credit
LA 2005 - Speech 3 credits
Total: 14 Credits

Sophomore Year

First Semester

CH 2003 - Principles of Organic Chemistry 3 credits
CH 2003L - Principles of Organic Chemistry Laboratory 1 credit
EN 2028 - Introduction to Literature 3 credits
MP 1102 - College Algebra 3 credits
PS 2101 - Botany of Vascular Plants 3 credits
Major Course 3 credits
Total: 16 Credits

Second Semester

LAES 2004 - Soils 3 credits
BA 2008 - Macroeconomics 3 credits
PS 2005 - Plant Physiology 3 credits
MP 1203 - Elementary Functions 3 credits or
MP 1210 - Applied Mathematics 3 credits
Major Course or Elective 3 credits
Major Course or Elective 2 credits
Total: 17 Credits

Junior Year

First Semester

BY 3007 - Entomology 3 credits
PS 4116 - Weed Science 3 credits
Major Course or Elective 9 credits
Total: 15 Credits

Second Semester

LAES 2209 - Soil Fertility and Fertilizer 3 credits
PS 3005 - Plant Propagation 3 credits
PS 3202 - Plant Breeding 3 credits
Major Course or Elective 7 credits
Total: 16 Credits

Senior Year

First Semester

PS 4005 - Plant Pathology 3 credits
PS 4105 - Seminar (horticulture) 1 credit
Choice 12 credits
Total: 16 Credits

Second Semester

PS 9914 - Pesticides for the Green Industry 3 credits
Electives 13 credits
Total: 16 Credits

Social Science area select one of the following:

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

Humanities 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

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