

Programs

Second Semester

*FS 3226	Service Systems Mgt.....	3
FS 4229	Foodservice Marketing Strategy**	3
	Humanities Area.....	3
	Social Sciences Area	3
	Elective.....	3
Total		15

SENIOR YEAR

First Semester

Course No.	Course Title	Credits
BA 3027	Human Resource Management.....	3
FS 3225	Purchasing, Storage, & Handling of Foods**	3
*FS 4131	Foodservice Facilities & Equipment	3
LA 1060	Introduction to Fine Arts	3
	Elective.....	3
Total		15

Second Semester

FS 4222	Quantity Food Production.....	3
FS 4223	Seminar	1
FS 4232	Legal Aspects of Foodservice Mgt**	3
LA 4037	Non-Western Societies	3
	Elective.....	4
Total		14

* Offered in even numbered years only.

** Offered in odd numbered years only.

Social Sciences Area: select one of the following:

LA 2012	Introduction to Sociology.....	3
LA 2036	Introduction to Psychology	3
LA 4203	Social Psychology and Human Interaction	3

Humanities Area: select two courses from the following:

LA 2040	Modern History of Western Societies ...	3
LA 2042	Introduction to Philosophy	3
LA 2138	History of Western Civilization I.....	3
LA 3032	American History and Government since 1877	3
LA 4127	United States Foreign Policy	3

Biotechnology Minor

(for Food Science and Food Technology Specializations)

A biotechnology minor is available for students in the Food Science and Food Technology specializations. It consists of the following courses:

Course No.	Course Title	Credits
*BY 2003	Genetics	3
*BT 3000	Introduction to Biotechnology.....	3

FS 3000	Selected Topics I and	1
FS 4000	Selected Topics II or.....	1
*CH 3001	Introductory Biomedical Instrumental Methods	3
*FS 4004	Industrial Fermentations.....	3
*BY 4155	Molecular Biology.....	4
Total		15-16

* Requires prerequisite.

HORTICULTURE (HT)

Faculty:

Barbara D. Muse, Chairperson
Mingwang Liu, Assistant Chairperson
Ronald R. Muse
Jacqueline A. Ricotta

Horticulture is one of the most successful areas of study at Delaware Valley College, having a national and international reputation. A degree in Horticulture will lead to exciting and challenging careers that are dynamic and rewarding. Graduates serve in government positions, at agricultural experiment stations and in private industry while others pursue graduate education.

The Horticulture program includes a broad spectrum of courses in plant science—organics, hydroponics, sustainable horticulture, biotechnology, botany, plant propagation, plant physiology and plant health management. The curriculum also provides an opportunity to major in one of three areas: (1) Commercial Crop Production and Marketing/Plant Health Management, (2) Plant Science and Biotechnology and (3) Hydroponic Crop Science.

Learning takes place in the classroom and in the outdoor living laboratory. These settings provide experiential “hands-on” learning in planting crops and carrying them through to harvest and marketing. In support of those educational activities, the Horticulture area has a plant cell and tissue culture laboratory, hydroponic greenhouse, high tunnel, production greenhouse, trial gardens, environmental monitoring equipment, 2 acre certified organic plot and 35 acres for the production of fruits and vegetables.

The production of healthy and nutritious food is a necessity of life. Horticulture has a global impact in serving and sustaining humanity while protecting the environment.

The total number of credits required for graduation with a degree in Horticulture is 124 plus 4 credits earned for successful completion of the Employment Program.

RECOMMENDED COURSE SEQUENCE

FRESHMAN YEAR

First Semester

Course No.	Course Title	Credits
BY 1116	Biological Science I	3
CH 1103	General Chemistry I.....	3
CH 1103L	General Chemistry I Lab.....	1
EN 1101	English I.....	3
LA 1020	Skills for College Success	1
MP 1102	College Algebra or	
MP 1203	Elementary Functions	3
PE 1109	Physical Education I.....	1
Total		15

Second Semester

BY 1217	Biological Science II	3
CH 1203	General Chemistry II.....	3
CH 1203L	General Chemistry II Lab	1
EN 1201	English II	3
MP 1203	Elementary Functions or	
MP 1204	Calculus I.....	3-4
PE 1209	Physical Education II	1
Total		14-16

Employment Program

HT 2370	Employment Program.....	1-2
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SOPHOMORE YEAR

First Semester

Course No.	Course Title	Credits
BY 3007	Entomology	3
CH 2003	Princ. of Organic Chemistry	3
CH 2003L	Princ. of Organic Chemistry Lab.....	1
EN 2028	Introduction to Literature	3
IT 1011	Information Technology Concepts ...	1.5
IT 1012	Computer Applications	1.5
	Restricted Elective	3
Total		16

Second Semester

AE 2004	Soils.....	3
BA 2008	Macroeconomics	3
HT 2101	Botany of Vascular Plants.....	3
LA 2005	Speech.....	3
	Restricted Elective or Elective	2
	Elective.....	3
Total		17

Employment Program

HT 2370	Employment Program.....	1-2
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JUNIOR YEAR

First Semester

Course No.	Course Title	Credits
BY 2003	Genetics	3
HT 3128	Horticulture Techniques I.....	2
OH 3005	Plant Propagation.....	3
	Humanities Area.....	3
	Restricted Elective	3
	Elective.....	3
Total		17

Second Semester

HT 2005	Plant Physiology.....	3
HT 3229	Horticulture Techniques II	2
	Humanities Area.....	3
	Restricted Electives.....	5
	Elective.....	2
Total		15

SENIOR YEAR

First Semester

Course No.	Course Title	Credits
HT 4005	Plant Pathology	3
HT 4105	Seminar	1
LA 4037	Non-Western Societies	3
	Restricted Elective	3
	Electives	5
Total		15

Second Semester

HT 4204	Plant Pest Management	3
LA 1060	Introduction to Fine Arts	3
	Social Sciences Area	3
	Restricted Elective	3
	Elective.....	3
Total		15

Social Sciences Area: select one of the following:

LA 2012	Introduction to Sociology.....	3
LA 2036	Introduction to Psychology	3
LA 4203	Social Psychology and Human Interaction	3

Humanities Area: select two courses from the following:

LA 2040	Modern History of Western Societies ...	3
LA 2042	Introduction to Philosophy	3
LA 2138	History of Western Civilization I.....	3
LA 3032	American History and Government since 1877.....	3
LA 4127	United States Foreign Policy	3

Programs

Restricted Electives

Major in Commercial Crop Production and Marketing/Plant Health Management

Course	Title	Credits
HT 2112	Commercial Fruit Production.....	3
HT 2211	Commercial Vegetable Production	3
HT 2335	Principles of Sustainable Agriculture....	2
HT 3204	Small Fruit Culture*.....	3
HT 3240	Integrated Pest Management.....	3
HT 4106	Marketing Horticultural Products.....	2
HT 4202	Advanced Pomology**	3
Total		19

Major in Plant Science and Biotechnology

Course	Title	Credits
BY 3002	General Microbiology	4
CH 2203	Biochemistry.....	3
CH 2203L	Biochemistry Lab.....	1
HT 2112	Commercial Fruit Production or	
HT 2211	Commercial Vegetable Production	3
HT 3025	Plant Cell and Tissue Culture**	2
HT 4225	Plant Disease Diagnosis	3
MP 3231	Statistics for Science.....	3
Total		19

Major in Hydroponic Crop Science

Course	Title	Credits
BA 2225	Accounting Fundamentals.....	3
BA 3141	Small Business Management	3
BY 2010	Introduction to Aquaculture.....	3
HT 2211	Commercial Vegetable Production	3
HT 3230	Hydroponics*.....	3
HT 4106	Marketing Horticultural Products.....	2
OH 4209	Greenhouse Management	3
Total		20

HT 3000, HT 4000- up to 2 additional credits may be taken for a Hydroponics research project.

* Offered in Spring Semester of odd numbered years.

** Offered in Spring Semester of even numbered years.

*** Offered in Fall Semester of odd numbered years.

**** Offered in Fall Semester of even numbered years.

***** Selected Topics I and II, Independent Study Courses, may be taken in either semester of the senior year with permission of the Department Chairperson and under the supervision of a faculty advisor.

LIBERAL ARTS (LA)

Faculty:

Jack W. Schmidt, Chairperson
Allison Buskirk-Cohen
Tanya H. Casas
David A. Snyder
Shih-chieh Su
Richard C. Ziemer

Delaware Valley College has long subscribed to the belief that a college education should emphasize the development of communication skills and a critical understanding of our social, economic, political, and cultural heritage. The Liberal Arts curriculum at Delaware Valley College exposes students to the richness, diversity and complexity of human history, promotes and increased self-awareness and concern for the role of the individual in society, develops students' ability to communicate effectively, and encourages artistic expression. Our courses encompass the fields of history, psychology, sociology, philosophy, speech, foreign languages, music and art. These courses constitute a major portion of the College's Core Curriculum and also provide content area courses for Social Studies Education majors.

MATHEMATICS AND PHYSICS (MP)

Faculty:

Karen G. McPherson, Chairperson
Imad Benjelloun
Svetlana Shkitko
Michael N. Tabachnick
Ruth Trubnik
Jeffrey A. Young

Mathematics is a language common to many different areas of human endeavor. Applied mathematics, in particular, is used in professions as diverse as actuarial science, operations research, management science, decision analysis, engineering physics, biometrics, econometrics and education. The Mathematics Department offers a broad range of courses. At the freshman level, the core courses are designed to increase students' mathematical literacy while providing background in the basic areas of mathematics. The upper level courses offer the specialized knowledge and skills necessary to prepare students for careers in science, business or education.