

Horticulture

Certificates

The **Horticulture certificate** requires 15 credits in the courses listed below.

Field of Study Code: HORT.CER

Total Credits Required	15
Hort 1100 Introduction to Horticulture.....	3
Hort 1101 Soils and Fertilizers.....	3
Hort 1110 Applied Plant Taxonomy	3
Hort 1130 Horticulture Business	3
Hort 2221 Plant Propagation.....	3

The **Floral Shop Management certificate** requires 24 credits in the courses listed below.

Field of Study Code: HORT.CER.FLOR

Total Credits Required	24
Program Requirements	21
Hort 1100 Introduction to Horticulture.....	3
Hort 1105 Floral Design I.....	3
Hort 1115 Floral Design II.....	3
Hort 1130 Horticulture Business	3
OR	
Busin 1100 Introduction to Business	3
Hort 2225 Specialty Floral Design	3
Hort 2244 Herbaceous Perennials.....	3
Hort 2863 Internship (Career & Technical Education)	3

Program Electives

.....**3**
Select three credits from any 1000- or 2000-level courses. The following courses are suggested. (In addition to the courses listed above.)

Hort 2257 Bedding Plant Production	3
Fashi 1620 Visual Merchandising I	3

The **Nursery and Garden Center Management certificate** requires 35 credits in the courses listed below.

Field of Study Code: HORT.CER.GRDN

Total Credits Required	35
Hort 1100 Introduction to Horticulture.....	3
Hort 1101 Soils and Fertilizers.....	3
Hort 1130 Horticulture Business	3
OR	
Busin 1100 Introduction to Business	3
Hort 2221 Plant Propagation.....	3
Hort 2241 Landscape Plants I	3
Hort 2242 Landscape Plants II	3
Hort 2243 Ornamental Grasses.....	2
Hort 2244 Herbaceous Perennials.....	3
Hort 2251 Diseases of Ornamental Plants	3
Hort 2261 Insects of Ornamental Plants	3
Hort 2863 Internship (Career & Technical Ed)	3
Math 1104 Mathematics for Horticulture	3

The **Greenhouse Management certificate** requires 24 credits in the courses listed below.

Field of Study Code: HORT.CER.GRNH

Total Credits Required	24
Hort 1100 Introduction to Horticulture	3
Hort 1101 Soils and Fertilizers	3
Hort 1130 Horticulture Business.....	3
OR	
Busin 1100 Introduction to Business	3
Hort 2221 Plant Propagation	3
Hort 2253 Greenhouse Operations and Procedures.....	3
Hort 2255 Greenhouse Crop Production	3
Hort 2257 Bedding Plant Production	3
Hort 2863 Internship (Career & Technical Education)	3

The **Landscape Design and Construction certificate** requires 41 credits in the courses listed below.

Field of Study Code: HORT.CER.LAND

Total Credits Required	41
Hort 1100 Introduction to Horticulture	3
Hort 1101 Soils and Fertilizers	3
Hort 1111 Landscape Design I.....	3
Hort 1112 Landscape Maintenance	3
Hort 1113 Landscape Construction.....	3
Hort 1114 Irrigation and Water Management.....	3
Hort 1140 Landscape Graphics	2
Hort 2211 Computer-Aided Drafting for Landscape	3
OR	
Arch 1211 Basic Computer-Aided Drafting — AutoCAD	3
Hort 2241 Landscape Plants I.....	3
Hort 2242 Landscape Plants II.....	3
Hort 2244 Herbaceous Perennials	3
Hort 2271 Landscape Design II.....	3
Hort 2863 Internship (Career & Technical Ed)	3
Math 1104 Mathematics for Horticulture	3

The **Power Equipment and Technology certificate** requires 16 credits in the courses listed below.

Field of Study Code: HORT.CER.POWEQ

Total Credits Required	16
Hort 1150 Power Equipment Electrical Systems.....	3
Hort 1151 2-Cycle Small Engine Repair and Maintenance	2
Hort 1152 4-Cycle Small Engine Repair and Maintenance	3
Hort 1153 Portable Power Generator Repair and Maintenance.....	2

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Hort 1154	Compact Diesel Engines	3
Hort 1155	Power Equipment Drivelines/Hydraulics Hydrostatics	3

The **Sustainable Landscapes certificate** requires seven credits in the courses listed below.

Field of Study Code: HORT.CER.SUSTAIN

Total Credits Required		7
Hort 1125	Water Use and Conservation in the Landscape	1
Hort 1131	Landscaping for Wildlife	1
Hort 1135	Introduction to Green Roofs	1
Hort 1141	Sustainable Landscape Design	1
Hort 1145	Perennial Plant Communities I	2
Hort 2245	Perennial Plant Communities II	1

The **Landscape and Turf Maintenance certificate** requires 39 credits in the courses listed below.

Field of Study Code: HORT.CER.TURF

Total Credits Required		39
Program Requirements		30
Hort 1100	Introduction to Horticulture.....	3
Hort 1101	Soils and Fertilizers.....	3
Hort 1112	Landscape Maintenance	3
Hort 1113	Landscape Construction	3
Hort 1114	Irrigation and Water Management	3
Hort 2231	Turf Science and Management	3
Hort 2251	Diseases of Ornamental Plants	3
Hort 2261	Insects of Ornamental Plants	3
Hort 2863	Internship (Career & Technical Education)	3
Math 1104	Mathematics for Horticulture	3

Program Electives.....9

Select six credits from the following courses. (Courses cannot be repeated.)

Hort 1110	Applied Plant Taxonomy	3
Hort 1151	2-Cycle Small Engine Repair and Maintenance	2
Hort 1152	4-Cycle Small Engine Repair and Maintenance	3
Hort 1185	Arboriculture	3
Hort 2241	Landscape Plants I	3
Hort 2242	Landscape Plants II	3
Hort 2244	Herbaceous Perennials.....	3

Select three credits from the following courses. (Courses cannot be repeated.)

Hort 2241	Landscape Plants I	3
Hort 2242	Landscape Plants II	3
Hort 2244	Herbaceous Perennials.....	3

The **Sustainable Urban Agriculture certificate** requires 28 credits in the courses listed below.

Field of Study Code: HORT.CER.URBAN

Total Credits Required.....		28
Program Requirements		21
Hort 1100	Introduction to Horticulture	3
Hort 1101	Soils and Fertilizers	3
Hort 1109	OSHA 10-Hour Landscape Safety	1
Hort 2300	Introduction to Sustainable Urban Agriculture	3
Hort 2301	Principles of Agroecology.....	3
Hort 2302	Sustainable Urban Vegetable and Herb Production	3
Hort 2307	Business Principles of Sustainable Agriculture	2
Hort 2863	Internship (Career & Technical Ed)	3

Program Electives.....7

Select seven credits from the following courses. (Courses cannot be repeated.)

Hort 1125	Water Use and Conservation in the Landscape	1
Hort 1135	Introduction to Green Roofs	1
Hort 1141	Sustainable Landscape Design	1
Hort 2303	Urban Agriculture Issues.....	2
Hort 2304	Hydroponic and Aquaponic Production Systems	3
Hort 2305	Local Foods	2
Hort 2308	Introduction to Composting.....	1

Contact Information:

If you are considering this program as an area of study, please contact the **Business & Applied Technology Division** office at 630-942-2592.

Program web site:

<http://www.cod.edu/programs/horticulture/>