

This degree requires a minimum of 71 credits in program requirements, program electives and general education in the courses listed below.

Field of Study Code: HORT.AAS.LAND
Program Requirements 59 to 60

Biolo	1110	Environmental Biology	4
OR			
Biolo	1151	Principles of Biological Science	5
OR			
Chemi	1211	Survey of General Chemistry	5
Hort	1100	Introduction to Horticulture.....	3
Hort	1101	Soils and Fertilizers.....	3
Hort	1109	OSHA 10-Hour Landscape Safety	1
Hort	1111	Landscape Design I.....	3
Hort	1112	Landscape Maintenance	3
Hort	1113	Landscape Construction	3
Hort	1114	Irrigation and Water Management	3
Hort	1130	Horticulture Business	3
Hort	2211	Computer-Aided Drafting for Landscape	3
Hort	2213	3D Landscape Design.....	3
Hort	2231	Turf Science and Management	3
Hort	2235	Landscape Estimating and Bidding.....	3
Hort	2241	Landscape Plants I.....	3
Hort	2242	Landscape Plants II	3
Hort	2251	Diseases of Ornamental Plants	3
Hort	2261	Insects of Ornamental Plants	3
Hort	2863	Internship (Career & Technical Education)	3
Econo	2201	Macroeconomics and the Global Economy....	3
OR			
Econo	2202	Microeconomics and the Global Economy....	3
Math	1104	Mathematics for Horticulture	3

General Education9

Communications – 6 credits, Humanities & Fine Arts – 3 credits.

Program Electives3

Select a minimum of 3 credits from the courses listed below.

Hort	1125	Water Use and Conservation in the Landscape.....	1
Hort	1131	Landscaping for Wildlife.....	1
Hort	1135	Introduction to Green Roofs	1
Hort	1140	Landscape Graphics.....	2
Hort	1141	Sustainable Landscape Design	1
Hort	1145	Perennial Plant Communities I.....	2
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
Hort	1154	Compact Diesel Engines	3
Hort	1155	Power Equipment Drivelines/ Hydraulics/Hydrostatics	3

Hort	1185	Arboriculture.....	3
Hort	2212	Advanced Computer-Aided Draft for Landscape.....	3
Hort	2214	Advanced 3D Landscape Design.....	2
Hort	2221	Plant Propagation	3
Hort	2243	Ornamental Grasses.....	2
Hort	2244	Herbaceous Perennials.....	3
Hort	2245	Perennial Plant Communities II.....	1
Hort	2271	Landscape Design II	3

Total Credits Required..... 71 to 72
AAS DEGREE

The **Sustainable Urban Agriculture degree** offers a hands-on approach to becoming a professional in the field of urban farming and sustainable urban agriculture. The goal of the program is to help society improve the health of its environment, food, and communities. Students gain practical experience working alongside professional urban farmers. Students will critically analyze historical and current food systems to offer more sustainable solutions. Includes sustainable urban agriculture management and marketing techniques for food production systems.

Field of Study Code: HORT.AAS.URBAN
Program Requirements 42 to 43

Biolo	1110	Environmental Biology	4
OR			
Biolo	1151	Principles of Biological Science	5
OR			
Chemi	1211	Survey of General Chemistry	5
Hort	1100	Introduction to Horticulture	3
Hort	1101	Soils and Fertilizers	3
Hort	1109	OSHA 10-Hour Landscape Safety	1
Hort	1125	Water Use and Conservation in the Landscape	1
Hort	1135	Introduction to Green Roofs	1
Hort	1141	Sustainable Landscape Design	1
Hort	2253	Greenhouse Operations and Procedures.....	3
Hort	2300	Introduction to Sustainable Urban Agriculture	3
Hort	2301	Principles of Agroecology.....	3
Hort	2302	Sustainable Urban Vegetable and Herb Production	3
Hort	2303	Urban Agriculture Issues.....	2
Hort	2304	Hydroponic and Aquaponic Production Systems	3
Hort	2305	Local Foods	2
Hort	2307	Business Principles for Sustainable Agriculture	2
Hort	2308	Introduction to Composting.....	1
Hort	2863	Internship (Career & Technical Ed)	3
Math	1104	Mathematics for Horticulture	3

General Education 12

Communications – 6 credits, Humanities & Fine Arts – 3 credits, Social & Behavioral Sciences – 3 credits.

Program Electives 10

Choose 10 credits from the following courses:

Bio	2150	Ecology.....	4
Botan	1320	Prairie Ecology.....	4
Earth	1135	Water Science – Fundamentals of Hydrology	4
Hort	1114	Irrigation and Water Management.....	3
Hort	2221	Plant Propagation.....	3
Hort	2251	Diseases of Ornamental Plants.....	3
Hort	2261	Insects of Ornamental Plants.....	3
Marke	2210	Principles of Marketing.....	3
Math	1428	College Algebra with Applications.....	3
Math	1635	Statistics.....	4

Total Credits Required 64 to 65

CERTIFICATE

The **Horticulture certificate** requires 24 credits

in the courses listed below.

Field of Study Code: Hort.CER

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Total Credits Required 24

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
Hort	2863	Internship (Career & Technical Education)	3

CERTIFICATE

The **Floral Design certificate** requires 24 credits

in the courses listed below.

Field of Study Code: Hort.CER.FLOR

Field of Study Code: Hort.CER.FLOR

Total Credits Required 24

Program Requirements 24

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	2220	Specialty Floral Design.....	3
Hort	2244	Herbaceous Perennials.....	3
Hort	2863	Internship (Career & Technical Education)	3

Program Electives 3

Fashi	1620	Visual Merchandising I.....	3
D	CEI	Interior Design.....	3

CERTIFICATE

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
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

CERTIFICATE

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
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

CERTIFICATE

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	2241	Computer-Aided Drafting for Landscape.....	3
Hort	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 Education)	3
Math 1104	Mathematics for Horticulture.....	3

CERTIFICATE

The **Sustainable Landscapes certificate** provides students with the training and necessary background to apply sustainable landscape practices in the field.

Field of Study Code: HORT.CER.SUSTAIN

Total Credits Required.....8-11

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
Hort	@ # u -1	

CERTIFICATE

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 Requirements30

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

CERTIFICATE

The **Power Equipment and Technology certificate** prepares students for entry level jobs performing equipment maintenance and repairs.

Field of Study Code: HORT.CER.POWEQ

Total Credits Required.....17-20

Hort 1150	Power Equipment and 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
Hort 1154	Compact Diesel Engines.....	3
Hort 1155	Power Equipment Drivelines/Hydraulics Hydrostatics	3
Hort	@ # u -1	

CERTIFICATE

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 Education)	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