



Sustainable Landscape Horticulture

Program No: 10-001-4

Associate Degree in Applied Science

Degree Completion Time: Four Terms

Degree completion time may vary based on student scheduling needs and class availability.

2012-2013

Catalog No.	Class Title	Credit(s)
Term 1		
10001110	Horticulture Introduction	3.00
10001122	Fundamentals of Plant Nutrition	1.00
10001158	Plants-Woody Ornamental	3.00
10001159	Flowers-Herbaceous	3.00
10462170	Facilities Maintenance/ Installation	1.00
10001180	Landscape Installation- Introduction	2.00
10001114	Computer Applications for Technicians	1.00
10001127	Landscape Design Studio Introduction	1.00
10801196	Oral/Interpersonal Communications	3.00
	Total	18.00
Term 2		
10001109	Landscape Installation- Advanced	2.00
10001153	Plant and Soil Science	3.00
10001154	Turf Management	3.00
10001172	Landscape Maintenance	2.00
10001128	Landscape Computer Aided Design	2.00
10804107	College Mathematics	3.00
10809198	Intro to Psychology	3.00
	Total	18.00
Term 3		
10001174	Horticulture Internship	2.00
10001140	Advanced Concepts in Horticulture	2.00
10001141	Plant Communities of Wisconsin	2.00
10001129	Site Inventory and Analysis	2.00
10001142	Integrated Landscape Grounds Maintenance OR 10001130 Greenhouse & Nursery Production (3cr)	3.00
10801197	Technical Reporting	3.00
10806112	Principles of Sustainability	3.00
	Total	17.00
Term 4		
10001143	Stormwater Structures & Management	3.00
10001144	Sustainable Horticulture Capstone Experience	3.00
10001131	Technology in Horticulture and Landscape	2.00
10001145	Sustainable Horticulture Management OR 10001146 Sustainable Landscape Grounds Mgmt (3cr)	3.00
10809172	Race, Ethnic, & Diversity Studies	3.00
10809166	Intro to Ethics, Theory & Application	3.00
	Total	17.00
	Program Total	70.00

Note: Classes run year-round; check with your program counselor for details.

Program start dates vary; check with your counselor for details.

Curriculum and program acceptance requirements are subject to change.

About the Career

Sustainable Landscape Horticulture technicians can make a living in a wide variety of ways. The work of a horticulture technician is truly a “green” career. You may work in the disciplines of plant propagation and production for a greenhouse or tree nursery—nurturing plants to be used in landscaping, food production, or sold in retail garden centers. You may also work on landscape maintenance or landscape construction crews for landscape contractors, lawn care service companies, botanical gardens, municipal park departments, golf courses, civil engineering firms, and natural resource management agencies. Work duties are typically outdoors and very hands on. With time and experience, management and consulting opportunities within the field are possible.

Careers

Many exciting career options await horticulture technician graduates. You may decide to enter the work world immediately, or you may choose to continue your education by completing your associate degree through an articulation agreement with a partner school. Entry-level positions available to you may include:

- Landscape Foreperson or Supervisor
- Grounds Manager
- Nursery and Greenhouse Supervisor
- Starting Your Own Business
- Nursery and Greenhouse Assistant
- Landscape Installer
- Landscape Maintenance Technician
- Gardening Services

Admissions Steps

- Application
- Application Fee
- Entrance Assessment Scores
- Transcripts
- Program Advising Session
- Functional Abilities Statement of Understanding Form

Program Outcomes

You'll learn to:

- Manage landscape grounds and horticultural operations sustainably.
- Minimize the stress on oneself and employee conflict to increase overall productivity.
- Implement stormwater conservation and management.
- Utilize the most up-to-date landscape and horticulture technologies.
- Communicate within the horticulture industry.

- Propagate and grow horticulture plants.
- Justify the selection of the appropriate plant(s).
- Determine nutritional requirements of turf grasses, ornamentals, and edibles.
- Analyze soil and its influence on plant life.
- Implement a landscape construction design plan.
- Use carpentry and masonry hand and power tools.
- Safely operate landscape equipment.
- Install irrigation equipment.
- Diagnose and treat pest problems on ornamental plants.
- Receive training for Wisconsin Pesticide Certification exam.

Approximate Costs

- \$126 per credit (resident)
- \$182 per credit (out-of-state resident)
- Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.)

Functional Abilities

Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified.

Placement Scores

Accuplacer/ACT scores will be used to develop your educational plan. Please contact your program counselor/advisor at 920-693-1109.

Transfer agreements are available with the following institutions:

Capella University
Cardinal Stritch University
Concordia University
Franklin University
Herzing University
Lakeland College

Marian College
Ottawa University
Silver Lake College
University of Phoenix
Upper Iowa University

UW-Green Bay
UW-Oshkosh
UW-Stout

IMPORTANT: For more information on these agreements, visit gotoltc.edu/transfer.

10001110 Horticulture Introduction

...introduces the learner to the horticulture industry, plant culture, identification, propagation, and physiology. Course will also explore the horticulture industry in regard to fruits, vegetables, ornamentals, greenhouse systems, landscape techniques, home gardens, and turf.

10001122 Fundamentals of Plant Nutrition

...prepares the learner with the necessary knowledge and skills in relationship to the fundamentals of plant nutrition, identification and analysis of the nutritional needs of plants; covers the selection of appropriate materials, application rates, and methods.
COREQUISITE: 10001110 Horticulture Introduction

10001158 Plants-Woody Ornamental

...prepares the learner with the physiology, culture, identification, and use of primarily temperate woody plant materials appropriate for landscapes in northeastern Wisconsin.

10001159 Flowers-Herbaceous

...prepares the learner to use flowers/foilage effectively in the landscape including annuals/perennials/roses. Care of each flower emphasizing selection and tips to best utilize each flower and ground-cover/vines is included.

10001170 Facilities Maintenance/Installation

...prepares the learner to use hand tools and power tools in basic applications of carpentry, plumbing, and basic electricity.

10001180 Landscape Installation-Introduction

...investigates techniques used in landscape construction practices. These include the use of specific landscape tools, plan implementation methods, preliminary site survey methods, proper planting, equipment operations & installations of basic landscape features.

10001114 Computer Applications for Technicians

...provides the learner with basics of the current Windows operating system, terminology, file management, Microsoft Word, Microsoft Excel, and horticulture engineering applications utilizing appropriate computer drafting software

10001127 Landscape Design Studio Introduction

...teaches the learner to graphically describes objects without CAD Systems or landscape drawing aids. Fundamental components of design process; lettering, geographic construction, orthographic projection, isometric sketching, section views, auxiliary views and dimensioning are covered.

10801196 Oral/Interpersonal Communications

...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects.
COREQUISITE: 10838105 Intro Reading and Study Skills or **CONDITION:** Reading accuplacer minimum score of 74 or equivalent

10001109 Landscape Installation-Advanced

...builds upon landscape construction methods learned in Introduction to Landscape Installation. Possible projects include mixed material patios, retaining walls, water features, sustainable landscape elements, rain gardens, roof gardens, wooden structures, etc.
PREREQUISITE: 10001180 Landscape Installation Introduction

10001153 Plant and Soil Science

...addresses the unique interactions of healthy plants & soils; examines the physical, chemical, organic & biological characteristics of soils and how they impact the structure & functions of plants.
COREQUISITE: 10001110 Horticulture-Introduction

10001154 Turf Management

...will identify various turf grasses and will examine natural low-maintenance turf, residential lawns and high intensity applications (i.e. golf courses, athletic fields).
PREREQUISITE: 10001110 Horticulture Introduction

10001172 Landscape Maintenance

...assists learner in identifying problems and cultural challenges in the landscape; pruning techniques, insect/disease problems, weed identification; soil fertility; resolve situations in the field.
PREREQUISITES: 10001110 Horticulture Introduction, 10001122 Fundamentals of Plant Nutrition and **COREQUISITE:** 10001153 Plant and Soil Science

10001128 Landscape Computer Aided Design

...will use computer and computer aided design software as tools for design communication; learners will be introduced to the fundamental components of CAD in landscape design. Property lines, topography, site planning, hardscapes, planting plans, and section view graphics will be covered.
PREREQUISITES: 10001114 Computer Applications for Technicians and 10001127 Landscape Design Studio Intro

10804107 College Mathematics

...is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators.
PREREQUISITE: Accuplacer Math minimum score of 79 or Equivalent or 10834109 Pre-Algebra and **COREQUISITE:** 10838105 Intro Reading and Study Skills or **CONDITION:** Reading accuplacer minimum score of 74 or equivalent

10809198 Intro to Psychology

...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.
COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10001174 Horticulture Internship

...provides a broad variety of specific occupational experiences in the horticultural industry. Students work with faculty to develop an internship plan and identify, coordinate, and evaluate learning experiences appropriate to the field of study and major career focus of the student.
COREQUISITE: 10001154 Turf Management and **CONDITION:** 310011 Horticulture Technician program or 100011 Sustainable Landscape Horticulture program requirements met

10001140 Advanced Concepts in Horticulture

...prepares the student to analyze and implement progressive methods and techniques at the forefront of the horticulture field, such as permaculture, hydroponics, aquaponics, aeroponics, vertical gardening, growing season extension, biodynamic farming, and agroforestry.
PREREQUISITE: 10001153 Plant and Soil Science

10001141 Plant Communities of Wisconsin

...enables the student to experience the diversity of the native plant communities throughout the Lakeshore region of Wisconsin and beyond. This course will involve extensive plant and plant community identification and analysis in the field.
PREREQUISITE: 10001158 Plants--Woody Ornamental and 10001159 Flowers--Herbaceous

10001129 Site Inventory and Analysis

...guides the student through inventory and evaluation of physical, biological, and cultural site resources to determine their potential for enhancement of human activities and their sensitivities to use-impact. Emphasis on information sources, data gathering methods and analysis techniques with projects to develop proficiency.
PREREQUISITE: 10001109 Landscape Installation--Advanced and 10001127 Landscape Design Studio Introduction

10001142 Integrated Landscape Grounds Maintenance

...provides the student with the tools to examine and implement multifaceted landscape scale maintenance by applying Integrated Pest Management to turfgrasses, ornamentals, and trees, as they relate to site amenities and facilities.
PREREQUISITE: 10001172 Landscape Maintenance and 10001154 Turf Management

10001130 Greenhouse & Nursery Production (OR Course)

...provides the student with the skills to analyze and implement efficient, cost-effective, and sustainable methods of horticultural production in a variety of structures as well as field scenarios.
PREREQUISITE: 10001153 Plant and Soil Science

10801197 Technical Reporting

...provides students with the skills to prepare and present oral and written technical reports. Types of reports may include lab and field reports, proposals, technical letters and memos, technical research reports, and case studies. This course is designed as an advanced communication course for students who have completed at least the prerequisite introductory writing course.
PREREQUISITE: 10831103 Intro to College Wrtg or **CONDITION:** Written Comm Prepared Learner (Accuplacer Wrtg min score of 86 or Equivalent) and **COREQUISITE:** 10838105 Intro Rdg & Study Skills or **CONDITION:** Reading Accuplacer min score of 74 or equivalent

10806112 Principles of Sustainability

...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community.
COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10001143 Stormwater Structures & Management

...analyzes and implements stormwater retention, detention, and harvesting at various landscape scales from backyard to regional watersheds. Environmental regulation considerations, best management practices, and design approaches will be utilized in project installations.
PREREQUISITE: 10001109 Landscape Installation--Advanced and 10001129 Site Inventory and Analysis

10001144 Sustainable Horticulture Capstone Experience

...undertakes independent study across the horticulture field, implements knowledge and skills, and analyzes progress and results. Proposal Scope must be approved by the instructor.
PREREQUISITE: 10001130 Greenhouse & Nursery Production OR 10001142 Integrated Landscape Grounds Maintenance

10001131 Technology in Horticulture and Landscape

...utilizes various programs and technologies for landscape, nursery, greenhouse, small/urban farm, and grounds planning, design, reporting, and monitoring.
PREREQUISITE: 10001130 Greenhouse & Nursery Production OR 10001142 Integrated Landscape Grounds Maintenance

10001145 Sustainable Horticulture Management

...prepares the student to manage and supervise horticultural operations such as a garden center, greenhouse, nursery, and small farm production.
PREREQUISITE: 10001130 Greenhouse & Nursery Production

10001146 Sustainable Landscape Grounds Mgmt (OR Course)

...implements management and supervisory strategies for "triple bottom line" sustainability (Environmental, Economic, and Social) landscape scale management operations.
PREREQUISITE: 10001142 Integrated Landscape Grounds Maintenance

10809172 Race, Ethnic, & Diversity Studies

...is a course that draws from several disciplines to reaffirm the basic American values of justice and equality by teaching a basic vocabulary, a history of immigration and conquest, principles of transcultural communication, legal liability and value of aesthetic production to increase the probability of respectful encounters among people. In addition to an analysis of majority/minority relations in a multicultural context, the topics of ageism, sexism, gender differences, sexual orientation, the disabled and the American Disability Act (ADA) are explored. Ethnic relations are studied in global and comparative perspectives.
COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10809166 Intro to Ethics, Theory & Application

...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decision-making process to these situations. **COREQUISITE:** 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent