

Program Number 10-001-4 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Sustainable Landscape Horticulture technicians can make a living in a wide variety of ways. This 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.

PROGRAM OUTCOMES

- Analyze growing media.
- Diagnose plant health.
- Communicate as a horticulture professional.
- Apply design principles.
- Provide horticulture maintenance.
- Apply the principles of plant science.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSION TO DO'S

- Work with Career Coach to:
 - Submit application and \$30 fee.
 - Submit official transcripts (high school and other colleges).

PROGRAM TO DO'S

- Work with Academic Advisor to:
 - Complete an assessment for placement (Accuplacer or ACT).
 - Complete Functional Abilities Statement of Understanding form.
 - Meet to plan your first semester schedule, review your entire plan of study, discuss placement assessment results and complete Program To Do's.

APPROXIMATE COSTS

- \$136.50 per credit tuition (WI resident) plus \$7.38 per credit student activity fee. \$10 per credit online fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Career Coach about how to apply for aid.

CONTACT

LTC Career Coach
920.693.1162 • CareerCoach@gotoltc.edu

Catalog No.	Class Title	Credit(s)
Term 1		
10001110	Horticulture Introduction	3
10001153	Botany and Soil Science	3
10001112	Plants 1	3
10001113	Landscape Installation 1	3
10801196	Oral/Interpersonal Communication	3
		15
Term 2		
10001120	Greenhouse & Nursery Production	3
10001121	Landscape Design Studio	3
10001132	Plants 2	3
10001172	Landscape Maintenance	3
10806112	Principles of Sustainability	3
		15
Term 3		
10001133	Landscape Installation 2	3
10001140	Advanced Concepts in Horticulture	3
10001148	Plant Communities of Wisconsin	3
10001123	Site Analysis and Stormwater Management	3
10809196	Introduction to Sociology	3
		15
Term 4		
10001147	Advanced Greenhouse & Nursery Mgmt	3
10001144	Sustainable Horticulture Capstone	3
10001149	Sustainable Landscape Management	3
10809198	Introduction to Psychology	3
10801195	Written Communications	3
		15
		TOTAL 60

Curriculum and Program Acceptance requirements are subject to change. Program start dates vary; check with your advisor for details. The tuition and fees are approximate based on 2019-2020 rates and are subject to change prior to the start of the academic year.



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. COREQUISITE: 10001172 Landscape Maintenance or CONDITION: 190013 Management of Sustainable Landscapes admissions requirements met

ADVANCED GREENHOUSE AND NURSERY MANAGEMENT...provides the student with managerial skills and experiences to choose, obtain, propagate, grow, maintain, sell, and determine prices for plants in a greenhouse and nursery context. Students will choose an additional greenhouse/nursery topic for advanced study and application. PREREQUISITE: 10001120 Greenhouse and Nursery Production

BOTANY AND SOIL SCIENCE...introduces the language and nature of botany and biology and makes them relevant to horticulture and landscaping. It also addresses the interactions of healthy plants and soils and examines the physical, chemical, biological, and management characteristics of soils. COREQUISITE: 10001110 Horticulture-Intro

GREENHOUSE AND NURSERY PRODUCTION...provides the student with the knowledge and skills for horticultural production. Students implement efficient, cost-effective, and sustainable methods of horticultural production in the greenhouse, in a variety of other horticulture-related structures, as well as in field scenarios. PREREQUISITES: 10001153 Botany & Soil Science and 10001110 Horticulture Intro

HORTICULTURE INTRODUCTION...engages the learner through instructor-led interactive research and presentation while exploring plant growth, development, and ecology; plant classification; plant health care; horticultural crops and production; the horticulture industry and related careers; and principles of design and design implementation.

INTRODUCTION 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. PREREQUISITE: Reading placement assessment equivalent or COREQUISITE: 10838105 Intro to Reading and Study Skill

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

LANDSCAPE DESIGN STUDIO...provides the learner with strategies to develop and apply a structured approach to designing landscape space. Fundamentals of the design process are applied including basic site analysis, plan development and detailing, proper plant selection, landscape graphic conventions, and client interactions. Both manual drafting and CAD software are used for design communications. Property lines, topography, site planning, hardscapes, planting plans, and section view graphics are covered.

LANDSCAPE INSTALLATION 1...investigates and implements landscape construction techniques including the proper and safe use of landscape tools, plan reading and interpretation, site management, proper planting, and the installation of landscape features.

LANDSCAPE INSTALLATION 2...builds upon landscape construction methods learned in Landscape Installation 1. Projects include mixed material patios, retaining walls, water features, sustainable landscape elements, rain gardens, roof gardens, wooden structures, etc. PREREQUISITE: 10001113 Landscape Installation 1

LANDSCAPE MAINTENANCE...assists the learner in identification and implementation of appropriate cultural practices while dealing with challenges in the landscape, including pruning techniques, insect/disease/abiotic problems; pesticides; turf issues; and resolving situations in the field. Course includes production, installation, maintenance, and harvest of edible and ornamental plants. PREREQUISITES: 10001110 Horticulture Introduction and 10001153 Botany and Soil Science

ORAL/INTERPERSONAL COMMUNICATION...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 Reading placement assessment equivalent

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, as well as native plant community design, restoration and preservation best practices. PREREQUISITE: 10001132 Plants 2 or CONDITION: 190014 Design of Sustainable Landscapes

PLANTS 1...introduces ornamental and weedy, woody, and herbaceous plant identification and culture/management through outdoor and indoor applied activities. The course activities focus on plants encountered in landscaping and production in eastern Wisconsin and the Midwest. This is the first course of a two-course series that continues as Plants 2.

PLANTS 2...provides the learner with the opportunity to conduct and present research through outdoor-and greenhouse-applied activities on ornamental, woody and herbaceous plants as well as on edible fruits, vegetables, and herbs. Utilizing the environmental campus as well as other field-type experiences, emphasis on plant identification and culture/management as undertaken in Plants 1, is continued. PREREQUISITE: 10001112 Plants 1

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 Reading placement assessment equivalent

SITE ANALYSIS AND STORMWATER MANAGEMENT...guides students through site surveys and the inventory and evaluation of physical, biological, water, and cultural resources to determine landscape development potentials and sensitivities to use-impact. Data gathering methods and analysis techniques with stormwater retention, detention, and harvesting projects at various landscape scales from backyard to regional watersheds are employed. Environmental regulations, best management, and design approaches are utilized in project installations. COREQUISITE: 10001121 Landscape Design Studio or CONDITION: 190013 Management of Sust Landscapes or 190014 Design of Sust Landscapes

SUSTAINABLE HORTICULTURE CAPSTONE...undertakes independent and group study across the field of horticulture. The learner implements knowledge and skills, and analyzes progress and results. Proposal scope must be approved by the instructor. PREREQUISITES: 10001140 Advanced Concepts in Horticulture or 10001140C2 Adv Concepts in Horticulture and COREQUISITE: 10001147 Advanced Greenhouse and Nursery Management or CONDITION: 190014 Design of Sustainable Landscapes admissions requirements met

SUSTAINABLE LANDSCAPE MANAGEMENT...approaches sustainable landscape management from a practical goal-based outlook and implements management and supervisory strategies for "triple bottom-line" sustainability (Environment, Economic, and Social). Extensive project based management opportunities will enable students to employ best management practices. COREQUISITE: 10001172 Landscape Maintenance or CONDITION: 190013 Management of Sustainable Landscapes

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. PREREQUISITE: 10831103 Intro to College Wrtg or Writing placement assessment equivalent and COREQUISITE: 10838105 Intro Rdg & Study Skills or Reading placement assessment equivalent