

Turfgrass Management A.A.S

Program Description

The Turfgrass Management A.A.S. degree program is designed to prepare students for an entry-level position within the turfgrass industry. The program will provide the opportunity for interested individuals to acquire the skills, knowledge and competencies necessary for a career as a golf course superintendent or grounds manager at a variety of facilities including golf courses, sports stadiums, parks and lawn care companies. For individuals currently employed in the field, the turfgrass management program will provide an opportunity to maintain and/or upgrade their education and training.

Technical Occupational Specialty

<input type="checkbox"/>	HRT	1013	Principles of Horticulture
<input type="checkbox"/>	HRT	1843	Irrigation and Drainage Design
<input type="checkbox"/>	HRT	2023	Horticulture Soil Science
<input type="checkbox"/>	HRT	2113	Turfgrass Management
<input type="checkbox"/>	HRT	2232	Seminar Horticulture Occupations
<input type="checkbox"/>	HRT	2244	Horticulture Practicum
<input type="checkbox"/>	HRT	2263	Horticulture Pest Management
<input type="checkbox"/>	HRT	2313	Deciduous Landscape Plants
<input type="checkbox"/>	HRT	2413	Evergreen Landscape Plants
<input type="checkbox"/>	HRT	2533	Advanced Turfgrass Management

30 Credit Hours

Date	Institution

Employment Information

National trends reflect an increased demand for turfgrass management graduates throughout the next decade. Continuing opportunities in this specialized field exist for graduates in the golf course, sports field, parks and lawn care industry with both public and private entities.

Support and Related Courses

<input type="checkbox"/>	BIOL	1303	Principles of Biology
<input type="checkbox"/>	OR		
<input type="checkbox"/>	BIOL	1404	Plant Biology
<input type="checkbox"/>	BUS	2113	Business Communications
<input type="checkbox"/>	MGMT	2213	Human Resources Management
<input type="checkbox"/>	CIS	1503	Microcomputer Applications - Microsoft Office
<input type="checkbox"/>	OR		
<input type="checkbox"/>	CIS	1113	Computer Concepts with Applications

19 Credit Hours

3-4		
3		
3		
3		

Degree Awarded

Associate in Applied Science

Select 6 credit hours from the following:

<input type="checkbox"/>	HRT	1103	Landscape Graphics I
<input type="checkbox"/>	HRT	1163	Bilingual Horticultural Communications
<input type="checkbox"/>	HRT	1423	Landscape Bidding & Contracts
<input type="checkbox"/>	HRT	2013	Maintenance of Landscape Plants
<input type="checkbox"/>	HRT	2233	Landscape Construction
<input type="checkbox"/>	HRT	2843	Irrigation Installation and Troubleshooting

3		
3		
3		
3		
3		
3		

For More Information Contact:

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General Education Requirements

<input type="checkbox"/>	ENGL	1113	English Composition I
<input type="checkbox"/>	ENGL	2333	Introduction to Technical Report Writing
<input type="checkbox"/>	HIST	1483	U.S. History to 1865
<input type="checkbox"/>	OR		
<input type="checkbox"/>	HIST	1493	U.S. History Since 1865
<input type="checkbox"/>	MATH	1413	General College Math
<input type="checkbox"/>	POLS	1113	American Government
<input type="checkbox"/>	SPCH	1113	Introduction to Speech Communication

18 Credit Hours

3		
3		
3		
3		
3		
3		
3		

*Department head approval required

Total to Graduate

67 Credit Hours

Student Name: _____

CWID: _____

Counselor: _____

TURFGRASS MANAGEMENT AAS COURSE DESCRIPTIONS

HRT 1013 PRINCIPLES OF HORTICULTURE

Horticulture fundamentals course covering the characteristics of and uses for horticultural plants, plant growth principles and plant care practices, the scope of the horticulture industry, basics in plant propagation, landscape plant maintenance, fruit and vegetable gardening and pest control. Lab: three hours per week.

HRT 1103 LANDSCAPE GRAPHICS I

Drafting and illustration techniques for landscape designs. Introduction to landscape drawing, delineation, lettering and color rendering with applications to simple and more complex landscape plans. Additional \$15 lab fee. Lab: three hours per week.

HRT 1163 BILINGUAL HORTICULTURE COMMUNICATIONS

This course is designed to assist supervisors and employees within the horticulture industry with the Spanish/English language transition and to gain better understanding of contemporary Hispanic culture. Emphasis will be placed on translating and then properly speaking horticulture terminology in Spanish while addressing cultural and communication issues. The linkages and implications of these issues will be examined as they apply to successfully managing and understanding a diversified work force.

HRT 1423 LANDSCAPE AND BIDDING CONTRACTS

Investigation of professional principles and practices in the field of landscape contracting, focusing on costs of business and project implementation. Course work includes: estimating costs for landscape installation and maintenance, bidding on landscape installation and maintenance work, preparation and review of contracts for landscape installation and maintenance, controlling the work and costs of the work under the terms of landscape contracts and subcontracts, and administering a landscape contracting business. Prerequisites: HRT 1013, MATH 0104 and CIS 1113 or CIS 1503.(sp)

HRT 1843 IRRIGATION AND DRAINAGE DESIGN

This course is designed to teach student basic principles of irrigation and drainage design. Students will be presented with engineering aspects of water dynamics and hydraulics. Additional topics include soil-water-plant interactions, system components, electrical systems and business practices and estimating. Students will design irrigation systems for residential, commercial and sport fields. Lecture: two hours per week. Lab: three hours per week.

HRT 2013 MAINTENANCE OF LANDSCAPE PLANTS

Preparation of soil, pruning and training of ornamental trees, shrubs and vines, pest and disease control, fertilization and environmental factors which affect the care and maintenance of landscape plants. Lab: three hours per week. Prerequisite: HRT 1013. (sp)

HRT 2023 HORTICULTURAL SOIL SCIENCE

Principle physical, chemical and biological properties of the soil as related to horticultural plant growth. Soil testing and fertilizer usage: formation and classification of soils, rural and urban land use. Prerequisites: HRT 1013, . Lab: three hours per week. (sp)

HRT 2113 TURFGRASS MANAGEMENT

Selection, establishment and maintenance of turf grass, use of equipment, identification of weeds and chemicals used for turf management. Lab: three hours per week. Prerequisite: HRT 1013. (f)

HRT 2232 SEMINAR IN HORTICULTURE OCCUPATIONS

To acquaint the student with the variety of job opportunities and placement in the horticulture industry. Skills used in resume writing, public speaking and project presentations will be covered. Development of skills necessary at the supervisory level including leadership, motivation of employees, communication, and recruiting and retaining good employees will be discussed. Guest speakers will address topics within the horticulture industry. Prerequisite: consent of department head.

HRT 2233 LANDSCAPE CONSTRUCTION

Emphasis is placed on the basic information necessary for constructing various elements needed to develop the landscape site. Landscape construction elements including walkways, decking, walls, screens, steps, irrigation, garden pools and fountains, and landscape lighting will be studied. Lab: three hours per week. Lecture: two hours per week. (f)

HRT 2244 HORTICULTURE PRACTICUM

Occupational aspects of ornamental horticulture are covered. An internship in ornamental horticulture in areas such as park maintenance, landscape construction, landscape maintenance, wholesale or retail sales, horticultural therapy or turf management will be established either in the industry or at the Horticulture Center. The lecture will involve problem-solving techniques for the area of specialization. Refinement of skills as well as speed and accuracy will be emphasized. Lab: six hours per week. Prerequisite: Consent of department head

HRT 2263 HORTICULTURAL PEST MANAGEMENT

Introduces and thoroughly covers the topic of pest management in all areas of horticulture technology. Lab: three hours per week. Prerequisite: HRT 1013. (F)

HRT 2313 DECIDUOUS LANDSCAPE PLANTS

Identification and classification of deciduous trees, shrubs, vines and groundcovers with some evergreen trees and shrubs. Includes the study of the plant materials cultural requirements and landscape uses. Lab: three hours per week. Lecture: two hours per week. Prerequisite: HRT 1013 or consent of department head. (su,f)

HRT 2413 EVERGREEN LANDSCAPE PLANTS

The identification and classification of evergreen trees, shrubs, vines and groundcovers with some deciduous trees and shrubs. Includes the study of their cultural requirements and landscape uses. Lab: three hours per week. Lecture: two hours per week. Prerequisite: HRT 1013 or consent of department head. (f)

HRT 2533 ADVANCED TURFGRASS MANAGEMENT

Emphasis will be placed on the appropriate grounds maintenance activities for commercial lawn care, sports facilities and golf courses. Advanced topics in turfgrass ecology, turf cultural requirements, pest control and equipment will be studied along with construction techniques of sports turf and day-to-day operations of various facilities. Lab: three hours per week. Lecture: two hours per week. Prerequisites: HRT 1013 and HRT 2113. (sp-odd years)

HRT 2843 IRRIGATION INSTALLATION AND TROUBLESHOOTING

This hands-on course introduces basic irrigation layout, installation, maintenance and troubleshooting techniques, Topics include: gluing and repairing PVC and polyethylene pipe, installing and adjusting heads, electric valve operation, troubleshooting and repairing electric valves and field controllers. Additional topics include pump and well operations, cross connection, winterizing, drainage and micro irrigation system installations. Lecture: two yours per week. Lab: three hours per week. Prerequisite: HRT 1843.(sp)