

# Horticulture Technology A.A.S.

## - Horticulture Therapy Option

### Program Description

Horticulture therapy is an emerging field that uses horticulture in a therapeutic setting to treat individuals with physical and developmental disabilities, recovering substance abusers, prisoners seeking rehabilitation, the elderly and others. Students discover how to use horticulture to improve the cognitive, physical and psychological well-being of special populations.

### Employment Information

Employment opportunities in this field could include working with individuals with special needs in nursing homes, schools, botanical gardens, prisons, or recovery and rehabilitation settings.

### Degree Awarded

Associate in Applied Science

### For More Information Contact:

Julia Laughlin, Horticulture Department Head

Division of Agriculture Technologies

Agriculture Resource Center

400 N Portland Avenue

Oklahoma City, OK 73107

405-945-3348

Email: [jlaugh@osuokc.edu](mailto:jlaugh@osuokc.edu)

[agriculture.technologies@osuokc.edu](mailto:agriculture.technologies@osuokc.edu)

Mary Ellen Brown, Secretary

405-945-3358

Email: [maryellen.brown@osuokc.edu](mailto:maryellen.brown@osuokc.edu)

[agriculture.technologies@osuokc.edu](mailto:agriculture.technologies@osuokc.edu)

<b>Student Name:</b>	_____
<b>CWID:</b>	_____
<b>Counselor:</b>	_____
Catalog 2011-2012	

Technical Occupational Specialty				37 Credit Hours	Date	Institution
<input type="checkbox"/>	BIOL	1404	Plant Biology	4		
<input type="checkbox"/>	HRT	1013	Principles of Horticulture	3		
<input type="checkbox"/>	HRT	1253	Introduction to Horticulture Therapy	3		
<input type="checkbox"/>	HRT	2003	Horticulture Therapy Program Management	3		
<input type="checkbox"/>	HRT	2232	Seminar Horticulture Occupations	2*		
<input type="checkbox"/>	HRT	2244	Horticulture Practicum	4*		

**Select a minimum of 6 credit hours from the following:**

<input type="checkbox"/>	HRT	2453	Herbaceous Ornamental Plants	3		
<input type="checkbox"/>	HRT	2463	Interior Plants	3		
<input type="checkbox"/>	HRT	2313	Deciduous Landscape Plants	3		
<input type="checkbox"/>	HRT	2413	Evergreen Landscape Plants	3		

**Select 12 credit hours from the following:**

<input type="checkbox"/>	HRT	1103	Landscape Graphics I	3		
<input type="checkbox"/>	HRT	1123	Home Gardening Fruits & Vegetables	3		
<input type="checkbox"/>	HRT	1153	Beginning Floral Design	3		
<input type="checkbox"/>	HRT	2050	Advanced Problems-Horticulture	3*		
<input type="checkbox"/>	HRT	2163	Plant Propagation	3		
<input type="checkbox"/>	HRT	2343	Controlled Environments Horticulture - Fall	3		
<input type="checkbox"/>	HRT	2443	Controlled Environments Horticulture - Spring	3		

### Support and Related Courses

**Select 3 credit hours of approved elective\***

<input type="checkbox"/>	CIS	1503	Microcomputer Applications Microsoft Office	3		
--------------------------	-----	------	---	---	--	--

**OR**

**Select 3 credit hours from the following:**

<input type="checkbox"/>	CIS	1113	Computer Concepts with Applications	3		
<input type="checkbox"/>	ITD	1323	Internet Fundamentals	3		

### General Education Requirements

<input type="checkbox"/>	ENGL	1113	English Composition I	3		
--------------------------	------	------	-----------------------	---	--	--

<input type="checkbox"/>	HIST	1483	U.S. History to 1865	3		
--------------------------	------	------	----------------------	---	--	--

**OR**

<input type="checkbox"/>	HIST	1493	U.S. History Since 1865	3		
--------------------------	------	------	-------------------------	---	--	--

<input type="checkbox"/>	MATH	1413	General College Math	3		
--------------------------	------	------	----------------------	---	--	--

**OR**

<input type="checkbox"/>	MATH	1513	College Algebra	3		
--------------------------	------	------	-----------------	---	--	--

<input type="checkbox"/>	POLS	1113	American Government	3		
--------------------------	------	------	---------------------	---	--	--

<input type="checkbox"/>	SPCH	1113	Introduction to Speech Communications	3		
--------------------------	------	------	---------------------------------------	---	--	--

<input type="checkbox"/>	PSYC	1113	Introduction to Psychology	3		
--------------------------	------	------	----------------------------	---	--	--

**Total to Graduate**

**61 Credit Hours**

\*Department head approval required

## HORTICULTURE TECHNOLOGY AAS-HORTICULTURE THERAPY OPTION COURSE DESCRIPTIONS

### **BIOL 1404 PLANT BIOLOGY (L, N)**

Survey of the plant phyla, structure and function of plant organs, water relations, translocation, reproduction, growth and development. Emphasis on the importance of plants to humans. Lab: two hours per week. Prerequisites: [R] [Sci] MATH 0104

### **\*CIS 1113 COMPUTER CONCEPTS WITH APPLICATIONS**

Provides students with an introduction to concepts and applications of the personal computer in business. Topics include spreadsheets, databases, word processing, ethics, vocabulary, Internet skills and file system management. Theory and hands-on computer instruction is included. This course is intended for students with existing computer skills. Prerequisite: READ 0033 or [R].

### **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. (Sp, Su, F)

### **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 1123 HOME GARDENING - FRUITS AND VEGETABLES**

Emphasis is placed on fruits and vegetables to be grown in a home garden. Cultural and environmental problems associated with each fruit or vegetable crop to be studied. Lab: three hours per week. (sp)

### **HRT 1153 BEGINNING FLORAL DESIGN**

Fundamentals of floral arrangement and design with hands-on experience to learn the basic skills necessary for designing and arranging fresh flowers and dried materials for use in the home or in a retail shop. Skills useful to flower shop employment are emphasized. Additional \$100 lab fee. Lab: three hours per week.

### **HRT 1253 INTRODUCTION TO HORTICULTURAL THERAPY**

Overview of horticulture as a therapeutic medium for special populations. Emphasis on working with the mentally and physically disabled, geriatrics, substance abuse recovery program participants and other clientele. History of horticultural therapy, community gardens and adaptive tools are explored. Lab focuses on the implementation of specific horticultural activities for special populations. Additional \$25 lab fee. Lab: three hours per week. (f)

### **HRT 2003 HORTICULTURAL THERAPY PROGRAM MANAGEMENT**

Advances the skills necessary to develop, implement and manage new or existing horticultural therapy programs. Emphasis on patient assessment, establishment of realistic client goals, structuring of horticultural activities and documentation of services. Additional focus on marketing and public relations, funding, grant writing, volunteer management and non-profit organizations. Prerequisite: HRT 1253. (sp)

### **HRT 2050 (2051-2056) ADVANCED PROBLEMS-HORTICULTURE**

One to six credits, six credits maximum. A study of applied problems that are of particular interest to horticulture majors. Prerequisite: consent of department head.

### **HRT 2163 PLANT PROPAGATION**

Principles and practices used in the sexual and asexual propagation of horticultural plants including seeds, division, layering, cuttings, grafting, budding and tissue culture techniques. Lab: three hours per week. Prerequisite: HRT 1013. (sp)

### **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 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 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.

### **HRT 2343 CONTROLLED ENVIRONMENTS HORTICULTURE-FALL**

This is a study of the operation and management of greenhouses and related environments. Emphasis is on infrastructure, cultural systems, production, and marketing of commercial floricultural, vegetable, and herb crops as practiced in the fall such as fall bedding plants and poinsettia. Lab and field trips are included. Prerequisite: HRT 1013. (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.

### **\*HRT 2443 CONTROLLED ENVIRONMENTS HORTICULTURE-SPRING**

This is a study of the operation and management of greenhouses and related environments. Emphasis is on infrastructure, cultural systems, production, and marketing of commercial floricultural, vegetable, and herb crops as practiced in the spring such as spring bedding plants and easter lily. Lab and field trips are included. Prerequisite: Hrt 1013. (sp)

### **HRT 2453 HERBACEOUS ORNAMENTAL PLANTS**

This plant identification course introduces ornamental annual and herbaceous flowering perennials for garden, landscape and patio spaces. The study includes flowering bulbs, roses, ornamental grasses and herbs. Culture, care and design issues are considered. Lab and field trips are included. Prerequisite: HRT 1013 or consent of department head.. (sp,su)

### **HRT 2463 INTERIOR PLANTS**

This plant identification course introduces tropical foliage and flowering plants for interior spaces. Cultural requirements, practical maintenance and design issues are considered, along with an introduction to the interiorscape industry. Lab and field trips are included. Prerequisite: HRT 1013 or approval of department head.. (f)

### **\*ITD 1323 INTERNET FUNDAMENTALS**

Introduction to the worldwide computer network. Course uses a hands-on approach to teach students the history and capabilities of the Internet. Students learn the resources available via the World Wide Web and searching capabilities. Prerequisites: placement test or CIS 1003.