

Horticulture Technology A.A.S.

- Nursery and Greenhouse Production Option

Program Description

The Associate in Applied Science-Nursery and Greenhouse Production Option prepares graduates in multiple aspects of crop production. This option offers training in propagation, growing on, finishing, and marketing plants and related products at both the wholesale and retail levels. Students gain valuable experience working with crops in a 16,000 square foot ridge-and-furrow greenhouse range, a 3,000 square foot Quonset-style greenhouse and other facilities. Students also experience various methods of plant production, including container and field production systems, providing a valuable understanding of each method's advantages and limitations with a view toward operations management.

Employment Information

Graduates will find employment as supervisors and technicians in the greenhouse, nursery, interior plantscape, garden center and related industries, both at the wholesale and retail levels. Some graduates choose to start their own operations.

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
agriculture.technologies@osuokc.edu

Mary Ellen Brown, Secretary
 405-945-3358
 Email: maryellen.brown@osuokc.edu
agriculture.technologies@osuokc.edu

Student Name:	_____
CWID:	_____
Counselor:	_____
Catalog 2011-2012	

Technical Occupational Specialty

<input type="checkbox"/>	BIOL	1404	Plant Biology	4
<input type="checkbox"/>	HRT	1013	Principles of Horticulture	3
<input type="checkbox"/>	HRT	2133	Nursery Management and Operations	3
<input type="checkbox"/>	HRT	2163	Plant Propagation	3
<input type="checkbox"/>	HRT	2213	Horticulture Marketing	3
<input type="checkbox"/>	HRT	2343	Controlled Environments Horticulture-Fall	3
<input type="checkbox"/>	HRT	2443	Controlled Environments Horticulture-Spring	3
<input type="checkbox"/>	HRT	2232	Seminar Horticulture Occupations	2*
<input type="checkbox"/>	HRT	2244	Horticulture Practicum	4*

37 Credit Hours

Date	Institution

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 3 credit hours from HRT*

Support and Related Courses

6 Credit Hours

<input type="checkbox"/>	BUS	2003	Small Business Management	3
<input type="checkbox"/>	OR		Business Management Course	
<input type="checkbox"/>	CIS	1503	Microcomputer Applications-Microsoft Office	3
<input type="checkbox"/>	OR			
<input type="checkbox"/>	CIS	1113	Computer Concepts with Applications	3
<input type="checkbox"/>	ITD	1323	Internet Fundamentals	

Select 3 credit hours from the following:

General Education Requirements

18 Credit Hours

<input type="checkbox"/>	ENGL	1113	English Composition I	3
<input type="checkbox"/>	HIST	1483	U.S. History to 1865	3
<input type="checkbox"/>	OR			
<input type="checkbox"/>	HIST	1493	U.S. History Since 1865	3
<input type="checkbox"/>	MATH	1413	General College Math	
<input type="checkbox"/>	OR			3
<input type="checkbox"/>	MATH	1513	College Algebra	
<input type="checkbox"/>	POLS	1113	American Government	3
<input type="checkbox"/>	SPCH	1113	Introduction to Speech Communications	3
			General Education Electives	3

(prefix of: BIOL, ENGL, HUMN, MATH, PSYC, etc)

Total to Graduate

61 Credit Hours

* Department head approval required

HORT TECHNOLOGY AAS-NURSERY & GH PRODUCTION 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

BUS 2003 SMALL BUSINESS MANAGEMENT

Focuses on the experiences and problems faced by those who go into business for themselves. Looks at problems of organizing and managing individually owned businesses including location, securing capital, records, personnel and sales promotion. Prerequisite: MGMT 2103.

***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 designed for students with existing computer skills. Prerequisite: READ 0033 or [R].

***CIS 1503 MICROCOMPUTER APPLICATIONS-MS OFFICE**

Familiarizes the student with fundamental terminology and concepts of microcomputers, their operating systems and disk management, as well as major production applications including word processing, spreadsheets, data base management systems, and may include graphics, data communications and desktop publishing. Familiarity with computer keyboard is recommended. Hands on computer instruction.

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 2133 NURSERY MANAGEMENT AND OPERATIONS

The propagation, production, management and marketing of commercial nursery stock including facilities, equipment, supplies, environmental and pest control. Lab: three hours per week. Prerequisites: HRT 1013.(f)

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 2213 HORTICULTURE MARKETING

An in-depth study of marketing principles and how marketing applies to the horticulture industry. Includes location, facilities, sales methods and price determination. Services, merchandising, marketing and advertising techniques, as well as supervisory and personnel responsibilities are also offered. (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 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. (su,f)

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. (sp)

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. is 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.