

HORTICULTURE TECHNOLOGY: PLANT PRODUCTION CONCENTRATION (A.A.S.)

<http://colsa.unh.edu/tsas/hort/plant-production>

Description

Ornamental, food, and medicinal crop production, whether hydroponics or conventional field agriculture, are areas of great growth potential and life satisfaction. In the Horticultural Technology Plant Production Concentration, students will learn all aspects of plant crop production in controlled environments and in field production systems.

After learning the fundamentals of soil and plant science, students will develop an understanding of crop production in soil, soil-less and hydroponic systems. Other areas of study include crop scheduling, crop care, crop health management, plant production business operation, pricing and costing. Students will also learn about greenhouse design, construction, operation and management.

In addition to comprehensive classroom and field trip studies, students in this concentration will learn extensively by producing crops in the Thompson School's fully functional greenhouse facility and potentially working in the College of Life Science and Agriculture's high tunnel production system.

Career Opportunities

Greenhouse grower, manager, operator and owner. Controlled environment farmer. Hydroponics grower. Retail garden center manager and owner. Medicinal and recreational cannabis grow operation manager, grower, owner. Field grown and high tunnel farm crop grower, owner, manager.

Requirements

Candidates for a degree must satisfy all of the Thompson School of Applied Science General Education requirements in addition to satisfying the requirements of the Horticultural Technology Plant Production concentration. Plant Production students are required to take:

HT 404	Plant Propagation	4
HT 405	Plants, People, Place	2
HT 407	Plant Structure and Function	4
HT 415	Soils and Land Use	2
HT 416	Soils and Plant Nutrition	2
HT 427	Horticultural Facilities Mgmt	2
HT 428	Horticultural Facilities Mgmt (II)	2
HT 458	Herbaceous Ornamental Plants	2
HT 529	Horticultural Facilities Mgmt (Greenhouse Practicum and Capstone I)	2
HT 530	Horticultural Facilities Mgmt (Greenhouse Practicum and Capstone I)	2
HT 557	Woody Landscape Plants	3
HT 575	Hydroponics	2

HT 576	Greenhouse Crop Production	2
HT 585	Fruit and Vegetable Production	3
HT 597	Horticultural Work Experience	0
ABM 404A	Introduction to Business I	2
ABM 404B	Introduction to Business II	2
COM 210	Public Speaking	3
FORT 578	Forest Insects & Diseases	2
SAFS 679	Food Production Field Experience I	4
SAFS 680	Food Production Field Experience II	4
TSAS 405A	Computers in the Workplace/Focus on Software Applications	2
TSAS 405B	Computers in the Workplace II/Focus on Hardware, Internet, Applications and Security	2
Choose one of the following:		4
ABM 508	Managerial Accounting	
ABM 514	Applied Sales	
ABM 532	Small Business Law	
Total Credits		59

Degree Plan

Plant Production Concentration Program of Study

Course	Title	Credits
First Year		
Fall		
HT 407	Plant Structure and Function	4
HT 415	Soils and Land Use(1/2 term)	2
HT 416	Soils and Plant Nutrition	2
HT 427	Horticultural Facilities Mgmt	2
MTH 202	College Algebra	3
TSAS 405A	Computers in the Workplace/Focus on Software Applications	2
TSAS 405B	Computers in the Workplace II/Focus on Hardware, Internet, Applications and Security	2
Credits		17
Spring		
COM 209	Expository Writing and Reading	4
COM 210	Public Speaking	3
FORT 578	Forest Insects & Diseases	2
HT 404	Plant Propagation	4
HT 428	Horticultural Facilities Mgmt (II)	2
SAFS 679	Food Production Field Experience I	4
Credits		19
Second Year		
Fall		
HT 529	Horticultural Facilities Mgmt (Greenhouse Practicum and Capstone I)	2
HT 557	Woody Landscape Plants	3
HT 405	Plants, People, Place	2
HT 458	Herbaceous Ornamental Plants	2

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HT 575	Hydroponics	2
HT 585	Fruit and Vegetable Production	3
HT 597	Horticultural Work Experience	0
SAFS 680	Food Production Field Experience II	4
Credits		18
Spring		
ABM 404A & ABM 404B	Introduction to Business I and Introduction to Business II	4
HT 530	Horticultural Facilities Mgmt (Greenhouse Practicum and Capstone II)	2
HT 576	Greenhouse Crop Production	2
SSCI 201 or SSCI 202	Human Relations or Social Issues	4
Choose one of the following:		4
ABM 508	Managerial Accounting	
ABM 514	Applied Sales	
ABM 532	Small Business Law	
Credits		16
Total Credits		70