

Horticulture

The horticulture major is administered through the School of Agricultural Sciences. The primary purpose of this major is to provide specialized academic preparation in the different content areas of production horticulture, to provide the skills required for landscape design, construction and maintenance, and to provide the technical skills needed for professional turf management. The horticulture program includes three specialized areas of study.

Production Horticulture Specialization

This specialization provides the student with the background and preparation for careers in production horticulture including vegetable, fruit and ornamental production, viticulture, garden center, greenhouse and nursery production, and tissue culture and propagation methodologies. Students may choose a general option within the program and select their upper division elective credits from a wide choice of courses throughout the School of Agricultural Sciences and the University. If interests are more specialized, students may elect the science option and specialize in a specific discipline.

Landscape Horticulture Specialization

Students selecting this specialization can prepare for interesting careers in landscaping parks, playgrounds, residential or industrial areas, road and street parkway improvement and maintenance to make the environment more pleasing and useful.

Turf Management Specialization

This specialization is intended for students interested in the technical management skills needed for professional turf management and the current strategies regarding environmental, social, political, and business issues within the turf industry.

Opportunities for individual program development within the various specializations/options may be realized through work experience, internships, special studies, and seminars; however, no more than 30 hours of such unstructured coursework may be counted toward the degree. Students in all specializations/options are urged to make use of them to meet the goals and needs of their respective programs.

Students in all specializations must complete the horticulture core. These courses are HORT 220, CSEM 240, one hour of HORT 381, and HORT 409.

Additional Fees

There may be extra expenses for field trips, manual, or supplies in some courses.

Bachelor of Science (B.S.) in Horticulture Degree Requirements

Degree Requirements	Credit Hours
University Core Curriculum Requirements ¹	39
To include MATH 108, CHEM 140A, PLB 200, UNIV 101 for additional four credit hours.	

Degree Requirements	Credit Hours
Requirements for Major in Landscape Horticulture	36
Core Requirements - HORT 220, HORT 381, HORT 409, HORT 423, HORT 424, HORT 430, HORT 432, HORT 436 or HORT 466, HORT 437	31
HORT: 300- or 400-level classes.	7
Other required courses - CSEM 240	4
CHEM 140B ²	4
Business Course ³	3
Agricultural Sciences Electives 300-and 400-Level ⁴	10
Other Electives	18
Total	120

¹ MATH 106, MATH 109, MATH 125, MATH 140 or MATH 150 may be substituted. CHEM 200 and CHEM 201 may be substituted. Any UNIV 101 may be substituted.

² CHEM 210 and CHEM 211 may be substituted.

³ Select one course from ACCT 210, ABE 333, FIN 200, FIN 300, MKTG 304, MGMT 304, MKTG 350, MGMT 350.

⁴ Choose any 300-level or 400-level from ABE, AGRI, ANS, CSEM, HORT, HTA, HND, FOR.

B.S. Horticulture - Production Horticulture (General) Specialization Degree Requirements

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Foundation Skills: CMST 101, ENGL 101, ENGL 102, MATH 108, UNIV 101	13
Disciplinary Studies: Fine Arts, Human Health, Humanities, CHEM 140A, PLB 200, ABE 204, Social Science	23
Integrative Studies (Multicultural/Diversity)	3
Requirements for Major	38
Core Requirements: HORT 220, HORT 381, HORT 409, HORT 423, HORT 424, HORT 430, HORT 432, HORT 437; HORT 436 or HORT 466	31

Degree Requirements	Credit Hours
HORT 300- or 400-level	7
Required Courses	43
CSEM 240	4
CHEM 140A, CHEM 140B	5
Business Elective	3
Agricultural Science Elective 300- and 400-level	12
PLB 200	1
Electives	18
Total	120

B.S. Horticulture - Production Horticulture (Science) Specialization Degree Requirements

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Foundation Skills: CMST 101, ENGL 101, ENGL 102, MATH 108, UNIV 101	13
Disciplinary Studies: Fine Arts, Human Health, Humanities, CHEM 200, PLB 200, ABE 204, Social Science	23
Integrative Studies (Multicultural/Diversity)	3
Requirements for Major	38
Core Requirements: HORT 220, HORT 381, HORT 409, HORT 423, HORT 424, HORT 430, HORT 432, HORT 437; HORT 436 or HORT 466	31
HORT 300- or 400-level classes	7
Required Courses	43
CSEM 240	4
CHEM 200, CHEM 201, CHEM 202, CHEM 210, CHEM 211, CHEM 212, CHEM 340, CHEM 341, CHEM 250	15

Degree Requirements	Credit Hours
PHYS 203A, PHYS 203B	6
MATH 108, MATH 109	3
Business Elective	3
Agricultural Sciences Elective 300- and 400-level	7
PLB 200	1
Electives	4
Total	120

B.S. Horticulture - Landscape Horticulture Specialization Requirements Degree Requirements

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Foundation Skills: CMST 101, ENGL 101, ENGL 102, MATH 108, UNIV 101	13
Disciplinary Studies: Fine Arts, Human Health, Humanities, CHEM 140A, PLB 200, ABE 204, Social Science	23
Integrative Studies (Multicultural/Diversity)	3
Requirements for Major	48
Core Requirements: HORT 220, HORT 327, HORT 328A, HORT 381, HORT 409, HORT 430, HORT 431, or HORT 434	20
HORT 324 OR HORT 326	3
HORT 400-level	4
HORT 300- or 400-level	21
Required Courses	33
CSEM 240	4
CHEM 140A, CHEM 140B	5
Business Elective	3

Degree Requirements	Credit Hours
Agricultural Science Elective 300- and 400-level	10
PLB 200	1
Electives	10
Total	120

B.S. Horticulture - Turf Management Specialization Degree Requirements

Degree Requirements	Credit Hours
University Core Curriculum Requirements	39
Foundation Skills: CMST 101, ENGL 101, ENGL 102, MATH 108, UNIV 101	13
Disciplinary Studies: Fine Arts, Human Health, Humanities, CHEM 140A, PLB 200, ABE 204, Social Science	23
Integrative Studies (Multicultural/Diversity)	3
Requirements for Major	33
HORT 220, HORT 322, HORT 381, HORT 390 (4-6 credits), HORT 403C, HORT 409, HORT 421, HORT 422, HORT 434	26
HORT/CSEM electives: 300-400 level undergraduate classes	7
Other required courses	42
CHEM 140A, CHEM 140B	5
PLB 200	1
AGSE 318, AGSE 370, ANS 314, CSEM 240, CSEM 401, CSEM 420, CSEM 443 or CSEM 446, or CSEM 446, CSEM 447, CSEM 468, Business course	30
College of Agricultural, Life, and Physical Sciences (COAS) 300-400 level electives	6
Other general electives	6
Total	120

Horticulture Minor

A minor in Horticulture is offered. A total of 15 hours of credit is required with at least 12 hours taken at the University. HORT 220 is required and at least eight hours from 300- or 400-level structured courses. The department chair or coordinating counselor must be consulted before selecting this field as a minor.

Intensive Controlled-Environmental Plant Production Certificate

Completion of the Intensive Controlled-Environmental Plant Production Certificate program will produce skilled entry-level certificate-holders with the horticultural management and production skills needed in the rapidly expanding floriculture, specialty vegetable, therapeutic cannabis, and urban and protected structure production systems industries. The certificate may be awarded on a stand-alone basis as well as serving in partial fulfillment of a B.S. in Horticulture.

Course of study

Includes a cross-section of classes that provide the student with problem solving and production skills required for intensive high value crop production systems. Candidates completing the certificate comprised of at least 30 credit hours as listed will be prepared for employment in high value crop production systems.

Intensive Controlled-Environmental Plant Production Certificate

Degree Requirements	Credit Hours
Technical Courses	
AGSE 361	3
AGSE 371	3
Production Courses	
HORT 220	4
CSEM 401	2
HORT 423	3
HORT 430	4
PLB 200	4
AGSE/CSEM/HORT 250	1
AGSE/CSEM/HORT 359	3-4
Focus areas of high value crop production (choose 1)	
PLB 217	3
HORT 424	4

Degree Requirements	Credit Hours
HORT 437	4
HORT 350	3
Total	30

Technology Fee

The School of Agricultural Sciences assesses the School of Agricultural Sciences undergraduate majors a technology fee of \$4.58 per credit hour up to 12 credit hours. The fee is charged Fall and Spring semesters.

Last updated: 02/28/2021

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Catalog Year Statement:

Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.