Date Submitted: 03/01/18 3:05 pm

Viewing: HLTSBS : Horticulture, Landscape, and Turf Sciences, Bachelor of Science in Agri Food & Life Sciences

Last approved: 04/06/15 10:39 am

Last edit: 06/25/18 1:49 pm

Changes proposed by: ckuhns

Catalog Pages Using this Program

[Horticulture (HORT)](#)

Submitter: User ID: crsleaf1   Phone:
   575-6731

Program Status   Active

Academic Level   Undergraduate

Type of proposal   Major/Field of Study

Select a reason for this modification
Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding Focused Study)

Are you adding a concentration?
   No

Are you adding a track?
   No

Are you adding a focused study?
   No

Effective Catalog Year   Fall 2019

College/School Code
   Bumpers College of Agricultural, Food, and Life Sciences(AFLS)

In Workflow

1. **AFLS Dean Initial**
2. **Director of Program Assessment and Review**
3. **Registrar Initial**
4. **HORT Chair**
5. **HORT Curriculum Committee**
6. **AFLS Faculty**
7. **AFLS Dean**
8. **Global Campus**
9. **Provost Review**
10. **University Course and Program Committee**
11. Faculty Senate
12. Provost Final
13. Provost's Office-- Notification of Approval
14. Registrar Final
15. Catalog Editor Final

Approval Path

1. 02/28/18 8:36 am Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 02/28/18 8:48 am Terry Martin (tmartin): Approved for Provost Initial
3. 03/01/18 1:40 pm Alice Griffin (agriffin): Rollback to Initiator

Department Code

Department of Horticulture(HORT)

Program Code   HLTSBS

Degree   Bachelor of Science in Agricultural, Food & Life Sciences

CIP Code

4. 03/02/18 7:08 am Lona Robertson (ljrobert): Approved for AFLS Dean Initial

5. 03/05/18 3:15 pm Alice Griffin (agriffin): Approved for Director of Program Assessment and Review

6. 06/25/18 1:50 pm Lisa Kulczak (lkulcza): Approved for Registrar Initial

7. 06/26/18 9:29 am Wayne Mackay (mackay): Approved for HORT Chair

8. 09/20/18 2:12 pm Jefferson Miller (jdmiller): Approved for HORT Curriculum Committee

9. 09/24/18 11:48 am Douglas Karcher (karcher): Approved for AFLS Faculty

10. 09/24/18 1:18 pm Lona Robertson (ljrobert): Approved for AFLS Dean

11. 09/24/18 4:55 pm Miran Kang (kang): Approved for Global Campus

12. 10/08/18 8:08 am Terry Martin

History

1. Aug 15, 2014 by Leepfrog Administrator (clhelp)
2. Apr 6, 2015 by Charlie Alison (calison)

01.0603 - Ornamental Horticulture.

Program Title

Horticulture, Landscape, and Turf Sciences, Bachelor of Science in Agri Food & Life Sciences

Program Delivery Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program?   **120**

Program Requirements and Description

Requirements

Requirements for a Major in Horticulture, Landscape and Turf Sciences (HLTS)

The HLTS major will consist of 120 hours to include the following:

State minimum core and discipline specific general education requirements:

(Course work that meets state minimum core requirements is in **bold**.)

Communications		6

~~Two English Core Courses (unless exempt)~~

    ENGL 1013   Composition I (ACTS Equivalency = ENGL 1013)

    ENGL 1023   Composition II (ACTS Equivalency = ENGL 1023)

U.S. History and Government		3

    HIST 2003   History of the American People to 1877 (ACTS Equivalency = HIST 2113)

    HIST 2013   History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)

    PLSC 2003   American National Government (ACTS Equivalency = PLSC 2003)

~~Mathematics (3 hours)~~   ~~3~~

Mathematics   **3-4**

    MATH 1203   College Algebra (ACTS Equivalency = MATH 1103) (or higher level math)

~~Sciences (16-20 hours)~~   ~~16-20~~

Physical and Biological Sciences   **12-16**

    BIOL 1543   Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture)

      & BIOL 1541L   and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)

    ~~BIOL 1613~~   ~~Plant Biology (ACTS Equivalency = BIOL 1034 Lecture)~~

      ~~& BIOL 1611L~~   ~~and Plant Biology Laboratory (ACTS Equivalency = BIOL 1034 Lab)~~

    CHEM 2613   Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)

      & CHEM 2611L   and Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)

  Select from one Chemistry group:

    CHEM 1073   Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture)

      & CHEM 1071L   and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)

  OR

  CHEM 1103   **University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)**

    & CHEM 1101L   **and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)**

  AND

  CHEM 1123   **University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)**

    & CHEM 1121L   **and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)**

Fine Arts and Humanities (6 hours)		6-8

  Fine Arts Core Course (Select at least 3 hours from Fine Arts University Core)

  Humanities Core Course (Select at least 3 hours from Humanities University Core)

Social Sciences		9

  Select 9 hours from Social Science University Core including at least one of the following:

    AGEC 1103   Principles of Agricultural Microeconomics

~~HLTS Core Requirements (26-28 hours)~~   ~~27-28~~

AGEC 2103	**Principles of Agricultural Macroeconomics**	
ECON 2013	**Principles of Macroeconomics (ACTS Equivalency = ECON 2103)**	
ECON 2023	**Principles of Microeconomics (ACTS Equivalency = ECON 2203)**	
ECON 2143	**Basic Economics: Theory and Practice**	

HLTS Core Requirements   **30-31**

UNIV 1001	University Perspectives	
COMM 1313	Public Speaking (ACTS Equivalency = SPCH 1003)	
	Communication Intensive Elective (3 hours - see advisor for approved list of courses)	
CSES 2203	Soil Science	
& CSES 2201L	and Soil Science Laboratory	
HORT 2003	Principles of Horticulture (with lab component)	
~~HORT 3901~~	~~Horticultural Career Development~~	
HORT 2101	**Course HORT 2101 Not Found**	
HORT 4403	Plant Propagation (with lab component)	
HORT 4413	Horticulture Physiology	
HORT 462V	Horticulture, Landscape, Turf Sciences Internship Experience ((1 hour))	
HORT 472V	**Course HORT 472V Not Found** ((2 hours))	
	Select two of the following:	
CSES 4143	Principles of Weed Control	
ENTO 3013	Introduction to Entomology	
PLPA 3004	Principles of Plant Pathology (with lab component)	

Horticulture Electives   **18**

Select 18 hours from the following:

HORT 1303	**Introduction to Floral Design**
HORT 2303	Introduction to Turfgrass Management
HORT 3103	Woody Landscape Plants (with lab component)
HORT 3113	Herbaceous and Indoor Plant Materials (with lab component)
HORT 3123	International Horticulture
HORT 3203	Sustainable Landscape Practices
HORT 3303	Vegetable Crops
HORT 3403	Turfgrass Management (with lab component)
HORT 3503	Sustainable and Organic Horticulture
HORT 4033	Professional Landscape Installation and Construction
HORT 4043	Professional Landscape Management
HORT 4103	Fruit Production Science and Technology (with lab component)
HORT 4503	Sustainable Nursery Production
HORT 4603	Practical Landscape Planning

HORT 4703	Greenhouse Management and Controlled Environment Horticulture
HORT 4701L	Greenhouse Management and Controlled Environment Horticulture Laboratory
HORT 4803	Greenhouse Crops Production
HORT 4801L	Greenhouse Crops Production Laboratory
HORT 4903	Golf and Sports Turf Management (with lab component)
HORT 4913	Rootzone Management for Golf and Sports Turf
HORT 4921	Golf Course Operations
HORT 4932	Turf Best Management Practices
HORT 400V	Special Problems
HORT 401V	Special Topics in Horticulture, Turf or Landscape

Discipline-Related Electives	12-13

Select at least 12 hours from the following:

~~General Electives (15-26 hours of general electives to total 120 hours)~~	~~15-26~~

AGME 3102	Small Power Units/Turf Equipment
& AGME 3101L	and Small Power Units/Turf Equipment Laboratory
AGME 3153	Surveying in Agriculture and Forestry
AGME 4973	Irrigation (with lab component)
ANSC/POSC 3123	Principles of Genetics
HORT 1103	Plants, People and You
HORT 400V	Special Problems
HORT 401V	Special Topics in Horticulture, Turf or Landscape
LARC 3914	Planting Design I
LARC 2113	Design Communications I
PHYS 1023	Physics and Human Affairs
& PHYS 1021L	and Physics and Human Affairs Laboratory (or higher level)

WCOB (up to 9 hours)

or any AGEC, AGME, BIOL, CHEM, CSES, ENSC, ENTO, FDSC, HORT, PLPA class not taken in any other elective group.

General Electives	**12-21**

Total Hours	120

8-Semester Plan

Horticulture, Landscape and Turf Sciences B.S.A.

Nine-Semester Degree Plan

Students wishing to follow the degree plan should see the Eight-Semester Degree Policy for university

requirements of the program.

First Year	Units		
	Fall	Spring	Summer
UNIV 1001 University Perspectives	1		
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher level math)	3-4		
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3		
~~COMM 1313 Public Speaking (ACTS Equivalency = SPCH 1003)~~	~~3~~	~~-~~	~~-~~
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
History Core Elective	**3**		
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3	
HORT 2003 Principles of Horticulture		3	
Fine Arts University Core (Suggest LARC 1003 Basic Course in the Arts: The American Landscape)		3	
~~History Core Elective~~	~~-~~	~~3~~	~~-~~
Social Science Core		3	
COMM 1313 Public Speaking (ACTS Equivalency = SPCH 1003)		**3**	
Year Total:	14	15	

Second Year	Units		
	Fall	Spring	Summer
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
Communication Intensive Class	3		
Horticulture Electives	6		
Discipline-related Elective	**3**		
~~BIOL 1613 Plant Biology (ACTS Equivalency = BIOL 1034 Lecture) & BIOL 1611L Plant Biology Laboratory (ACTS Equivalency = BIOL 1034 Lab)~~	~~-~~	~~4~~	~~-~~
~~Fine Arts/Humanities University Core~~	~~-~~	~~3~~	~~-~~
~~HORT 3901 Horticultural Career Development~~	~~-~~	~~1~~	~~-~~
Humanities University Core (Suggest PHIL 2003 Intro to Philosophy)		**3-4**	
HORT 4413 Horticulture Physiology		**3**	
Discipline-related Elective		3	
HORT 2101 Course HORT 2101 Not Found		**1**	
General Electives		4	
Year Total:	16	14	

Third Year	Units		
	Fall	Spring	Summer

CSES 2203 Soil Science	4		
& CSES 2201L Soil Science Laboratory			
Pest Management Elective	3-4		
Horticulture Elective	3		
Social Sciences University Core Elective	3		
Discipline-Related Elective	3		
CHEM 2613 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	4		
& CHEM 2611L Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)			
Discipline-Related Elective		3-4	
HORT 4403 Plant Propagation		3	
Horticulture Elective		3	
HORT 462V Horticulture, Landscape, Turf Sciences Internship Experience			1
Year Total:	16	13	1

Fourth Year	Units		
	Fall	Spring	Summer
~~Discipline-Related Elective~~	~~3~~	~~-~~	~~-~~
Horticulture Elective	3		
HORT 472V **Course HORT 472V Not Found**	**2**		
Pest Management Elective	3-4		
General Electives	1-9		
Social Science University Core Elective		3	
Horticulture Elective		3	
General Electives		7-8	
Year Total:	17	14	

Total Units in Sequence:	120

Are Similar Programs available in the area?	
No	
Estimated Student Demand for Program	NA
Scheduled Program Review Date	**2020-2021** ~~NA~~
Program Goals and Objectives	

Program Goals and Objectives

Program Goals and Objectives
NA

Learning Outcomes

Learning Outcomes
NA

Description and justification of the request

Description of specific change	Justification for this change
Made changes to Internship program by adding HORT 472V (2 hours) and decreasing summer requirement of HORT 462V (1 hour). Moved all online classes from Discipline related electives to Horticulture electives. Changed HORT 3901 Career Development to a 2000 level course (HORT 2101). Removed BIOL 1613 and 1611L from Physical and Biological Sciences Core and added HORT 4413 to Horticulture Core. Added new course HORT 1303 - Intro to Floral Design to Horticulture Electives. Added FDSC to Discipline related Electives.	To be in compliance with University policy on off-campus student enrollment changes made to Internship program for assessment purposes. Faculty voted to accept all on-line courses as part of Horticulture Electives instead of Discipline-related Electives. HORT 3901 re-aligned to lower level to capture incoming students for student learning outcome assessment. Faculty voted to accept HORT 4413 - Horticulture Physiology in lieu of BIOL 1613/1611L as being more relevant to HLTSBS majors. Faculty voted to accept courses in FDSC for Discipline-related electives.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (02/28/18 3:46 pm): Changed effective date from spring 2019 to fall 2019. UGRD program changes can only occur at the beginning of each catalog year.

Alice Griffin (agriffin) (02/28/18 4:26 pm): Edited the credit hours field in the course list in order for the total hours to correctly reflect the 120 credit hours required for the degree program.

Alice Griffin (agriffin) (03/01/18 9:51 am): Adjusted general electives in 8/9 SDCP for hours to total 120 hours.

Alice Griffin (agriffin) (03/01/18 10:59 am): Adjusted the range of credit hours within the 8/9 SDCP to assist with hours totaling 120 credit hours.

Alice Griffin (agriffin) (03/01/18 1:40 pm): Rollback: Please change the reason for the modification to a minor change. Also insert the change of HORT 3901 to HORT 2101 as noted in the description.

Alice Griffin (agriffin) (03/02/18 8:19 am): Updated scheduled program review date.

Alice Griffin (agriffin) (03/05/18 3:15 pm): Inserted suggested classes for Fine Arts and

Humanities as requested by department. Also, changed general electives from 6-9 to 1-9 in the fall of the fourth year so that electives in the 8/9 SDCP match program requirements with permission from submitter.

Lisa Kulczak (lkulcza) (06/25/18 1:49 pm): Both HORT courses "not found" currently in approval process for 2019.

Key: 153