

Date Submitted: 09/09/22 3:09 pm

## Viewing: CPSCBS : Crop Science, Bachelor of Science in Agri Food & Life Sciences

Last approved: 05/21/21 12:26 pm

Last edit: 11/01/22 12:30 pm

Changes proposed by: msavin

Catalog Pages Using

this Program

[Crop Science \(CPSC\)](#)[Crop, Soil and Environmental Sciences \(CSES\)](#)

Submitter: User ID: [msavin](#) ~~hkuteza~~ Phone:   
[575-5740](#) ~~7456~~

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 Certificate, Degree or Program (including 15 or fewer hours, admission/graduation requirements, Focused Studies or Tracks)

Are you adding a concentration?

No

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2023

College/School Code

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

Department Code

### In Workflow

1. AFLS Dean Initial
2. Director of Curriculum Review and Program Assessment
3. Registrar Initial
4. Institutional Research
5. CSES Chair
6. CSES Curriculum Committee
7. AFLS Faculty
8. ARSC Dean
9. AFLS Dean
10. Global Campus
11. Provost Review
12. Undergraduate Council
13. Faculty Senate
14. Provost Final
15. Registrar Final
16. Catalog Editor Final

### Approval Path

1. 09/09/22 3:29 pm  
Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 09/12/22 3:47 pm  
Alice Griffin (agriffin): Approved for Director of Curriculum Review and Program Assessment

## Department of Crop, Soil and Environmental Sciences (CSES)

Program Code CPSCBS  
 Degree Bachelor of Science in Agricultural, Food & Life Sciences  
 CIP Code

3. 09/15/22 8:34 pm  
Gina Daugherty  
(gdaugher):  
Approved for  
Registrar Initial
4. 09/16/22 12:02 pm  
Doug Miles  
(dmiles): Approved  
for Institutional  
Research
5. 10/21/22 3:32 pm  
Jeff Edwards  
(jeffreye): Approved  
for CSES Chair
6. 10/21/22 3:34 pm  
Jefferson Miller  
(jdmiller): Approved  
for CSES Curriculum  
Committee
7. 10/28/22 7:40 am  
Garry McDonald  
(gmcdonal):  
Approved for AFLS  
Faculty
8. 10/28/22 8:23 am  
Jeannie Hulen  
(jhulen): Approved  
for ARSC Dean
9. 10/28/22 8:34 am  
Lona Robertson  
(ljrobert): Approved  
for AFLS Dean
10. 10/28/22 9:01 am  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
11. 10/31/22 8:35 am  
Jim Gigantino  
(jgiganti): Approved  
for Provost Review

## History

1. Aug 15, 2014 by  
Leepfrog  
Administrator  
(clhelp)
2. Aug 31, 2017 by  
Charlie Alison  
(calison)
3. May 21, 2019 by  
Mary Savin (msavin)
4. Dec 20, 2019 by  
Charlie Alison  
(calison)
5. May 15, 2020 by  
Gina Daugherty  
(gdaugher)
6. Jun 18, 2020 by Lisa  
Kulczak (lkulcza)
7. Dec 10, 2020 by  
Karen Turner  
(kjvestal)
8. Dec 10, 2020 by  
Karen Turner  
(kjvestal)
9. Apr 7, 2021 by Lisa  
Kulczak (lkulcza)
10. May 21, 2021 by  
Lisa Kulczak (lkulcza)

01.1102 - Agronomy and Crop Science.

### Program Title

Crop Science, 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?

Yes

College(s)/School(s)

College/School Name
Fulbright College of Arts and Sciences (ARSC)

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

## Program Requirements and Description

Requirements

### Requirements for a Major in Crop Science (CPSC)

State minimum core and discipline specific general education requirements.

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

<b>English/Communications</b>	<b>15</b>
<u><b>University Requirements</b></u>	<u><b>1</b></u>
<u>UNIV 1001</u> University Perspectives <sup>1</sup>	
<b>Total Hours</b>	<b>120</b>
<p><del>*Students minoring in Agricultural Business should choose AGEC 2103 in the Social Sciences block and will need to select another course in the list of AGBS-M Controlled Electives (as part of the General Electives for the CPSC major) to fulfill the requirements for the minor.</del></p>	
<p><del>**One 3-hr study abroad course, either Experiential Learning in Indian Agriculture (Jan) or Sustainability in the Eurozone Agro-Food Chain (May), which are both taken under AFLS 401V/AFLS 401VH, or CSES 462V International Research Internship (SU) may be used in fulfilling the General Agronomy requirement.</del></p>	
<p><del>***If students declare a minor, then no more than 9 credit hours of courses selected within major (including courses within the CPSC Requirements Groups C-G) can be taken for duplicate credit in applying toward a minor associated with CPSC Requirements Groups C-G.</del></p>	
<p><del>**** UNIV 1001 required for new freshmen only.</del></p>	
<u><b>Communications</b></u>	<u><b>12</b></u>
<u>ENGL 1013</u> Composition I (ACTS Equivalency = ENGL 1013)	
<u>ENGL 1023</u> Composition II (ACTS Equivalency = ENGL 1023)	

<u>ENGL 2003</u>	<del>Advanced Composition</del>	
or <u>ENGL 3053</u>	<del>Technical and Professional Writing (ACTS Equivalency = ENGL 2023)</del>	
<u>COMM 1313</u>	Public Speaking (ACTS Equivalency = SPCH 1003)	
<u>CSES 3023</u>	Crop, Soil, and Environmental Sciences Colloquium	
<b>US History or Government <sup>2</sup></b>		<b>3</b>
<b>Select 3 hours U.S. History course from University Core:</b>		
Select 3 hours US History or Government State Minimum Core		
<b>Mathematics and Computer Science</b>		<b>6</b>
<u>MATH 1203</u>	College Algebra (ACTS Equivalency = MATH 1103) (or higher level MATH)	
<u>ASTM 2903</u>	Agricultural and Human Environmental Sciences Applications of Microcomputers	
or <u>STAT 2303</u>	Principles of Statistics (ACTS Equivalency = MATH 2103)	
<u>STAT 2303</u>	<del>Principles of Statistics (ACTS Equivalency = MATH 2103)</del>	
<b>Physical and Biological Sciences</b>		<b>15-19</b>
<u>BIOL 1543</u> & <u>BIOL 1541L</u>	Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	
<u>BIOL 1613</u> & <u>BIOL 1611L</u>	<del>Plant Biology (ACTS Equivalency = BIOL 1034 Lecture) and Plant Biology Laboratory (ACTS Equivalency = BIOL 1034 Lab)</del>	
or <u>CSES 1203</u>	<del>Introduction to Plant Sciences</del>	
<u>CHEM 2613</u> & <u>CHEM 2611L</u>	Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture) and Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)	
<u>ANSC 3123</u>	Principles of Genetics	
or <u>POSC 3123</u>	Principles of Genetics	
or <u>BIOL 2323</u>	General Genetics	
<u>POSC 3123</u>	<del>Principles of Genetics</del>	
<u>BIOL 2323</u>	<del>General Genetics</del>	
Select one CHEM group (4-8 hours)		
<u>CHEM 1073</u> & <u>CHEM 1071L</u>	Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	

[CHEM 1103](#) University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)  
 & [CHEM 1101L](#) and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414  
 & [CHEM 1123](#) Lab)  
 & [CHEM 1121L](#) and University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)  
 and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424  
 Lab)

**Fine Arts and Humanities <sup>2</sup>****6****Select one Fine Arts course and one Humanities course from University Core:**

Select 3 hours from Fine Arts State Minimum Core

[BIOL 4303](#)[Course BIOL 4303 Not Found](#)

Select 3 hours from Humanities State Minimum Core

**[CHEM 1123](#) University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)  
 & [CHEM 1121L](#) and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424  
 Lab)**

**Social Sciences <sup>2</sup>****9**[AGEC 1103](#) Principles of Agricultural Microeconomics**Select 6 hours from Social Sciences from University Core (3 hours must be outside AGEC/ECON discipline) Students minoring in Agricultural Business should choose AGEC 2103\*.****CPSC Requirements****26****General Agronomy**Select 6 hours from Social Sciences State Minimum Core**Crop Science Core****27**[CSES 1203](#) [Introduction to Plant Sciences](#)[CSES 2103](#) Crop Science  
& [CSES 2101L](#) and Crop Science Laboratory[CSES 2203](#) Soil Science  
& [CSES 2201L](#) and Soil Science Laboratory[CSES 4013](#) Advanced Crop Science[CSES 4224](#) Soil Fertility[CSES 4143](#) [Principles of Weed Control](#)[ENTO 3013](#) Introduction to Entomology[PLPA 3003](#) Principles of Plant Pathology

Crop Science Electives<sup>3</sup>21

Select Twenty-One (21) hours from the following:

CSES 3214 Soil Resources and Nutrient Cycles

~~CSES 355V~~ ~~Soil Profile Description ((1-2 hours))~~

~~CSES 400V~~ ~~Special Problems ((1-6 hours))~~

CSES 3312 Cotton Production

CSES 3322 Soybean Production

CSES 3332 Rice Production

CSES 3342 Cereal Grain Production

**Group B**

CSES 3703 Course CSES 3703 Not Found

ENSC 3003 Introduction to Water Science

~~AGEC 3413~~ ~~Principles of Environmental Economics~~

~~or ENSC 3413~~ ~~Principles of Environmental Economics~~

~~AGEC 3503~~ ~~Agricultural Law I~~

~~AGEC 3523~~ ~~Environmental and Natural Resources Law~~

~~BIOL 3861L~~ ~~General Ecology Laboratory~~

~~BIOL 3863~~ ~~General Ecology~~

~~CSES 4133~~ ~~Ecology and Morphology of Weedy and Invasive Plants~~

~~CSES 4553~~ ~~Wetland Soils~~

~~CSES 462V~~ ~~Internship ((3 hours))~~

~~ENSC 3003~~ ~~Introduction to Water Science~~

~~ENSC 3103~~ ~~Plants and Environmental Restoration~~

~~ENSC 3223~~ ~~Ecosystems Assessment~~

ENSC 3263 Soil and Water Conservation

~~HORT 2303~~ ~~Introduction to Turfgrass Management~~

ENSC 3603 GIS for Environmental Science

~~ENSC 4021L~~ ~~Water Quality Laboratory~~

~~ENSC 4023~~ ~~Water Quality~~

ENSC 4033	Analysis of Environmental Contaminants	
ENSC 4263	Environmental Soil Science	
ENSC 4401	Professional Certification Preparation	
GEOS 3043	Sustaining Earth	
GEOS 3543	Geospatial Applications and Information Science	
<b>GENERAL ELECTIVES</b>		<b>10-18</b>
<u>CSES 4103</u>	Plant Breeding	
CSES 4303	Bioenergy Feedstock Production	
CSES 4253	Soil Classification and Genesis	
ENSC 3103	Plants and Environmental Restoration	
<u>CSES 4133</u>	Ecology and Morphology of Weedy and Invasive Plants	
or <u>CSES 4143</u>	Principles of Weed Control	
<b>CPSC Requirements</b>		<b>9-12</b>
<b>Select one group (C-G) for CPSC Requirements (9-12 hours). Courses selected within major cannot be taken for duplicate credit. Students who wish to declare a minor must contact the Bumpers College Dean's Office:</b>		
<b>Group C - Pest Management (9 hours)</b>		
CSES 4133	Ecology and Morphology of Weedy and Invasive Plants	
or CSES 4143	Principles of Weed Control	
<u>ENTO 4123</u>	Insect Pest Management	
<b>Group D - Agricultural Business (12 hours)</b>		
AGEC 2303	Introduction to Agribusiness	
AGEC 3403	Farm Business Management	
Select 3 hours from the following:		
Core elective hours from approved list in AGBS-Minor		
Select 3 hours from the following:		
Controlled elective hours from approved list in AGBS-minor (3 hours)		
<b>GROUP E - Crop Biotechnology (10 hours)</b>		
PLPA 4333	Biotechnology in Agriculture	



**CSES 400V Special Problems**

(2-2-hr courses taken in two different semesters)

Choose 6 hours from the following:

**BIOL 4303****Course BIOL 4303 Not Found**

CHEM 3813

Elements of Biochemistry

CSES 4103

Plant Breeding

**GROUP F – Soil Science (9-10 hours)**

CSES 3214

Soil Resources and Nutrient Cycles

ENSC 3263

Soil and Water Conservation

CSES 355V

Soil Profile Description ((1 hour, may take twice for credit))

CSES 4253

Soil Classification and Genesis

ENSC 4263

Environmental Soil Science

ENSC 4401

Professional Certification Preparation

CSES 4553

Wetland Soils

**GROUP G – Natural Resources Management (9 hours)****ENSC 1003****Environmental Science****& ENSC 1001L****and Environmental Science Laboratory**

Select at least 5 hours from the following:

PLPA 4223

Plant Disease Control

PLPA 4333

Biotechnology in Agriculture

**Pest Management****10**CSES 462V

Internship (3 hours)

CSES 400V

Special Problems (3 hours)

Select at least 8 hours from the following two groups. At least 6 hours must be from Group A:

**Group A****General Electives****16-****20**

Total Hours

120

1UNIV 1001 University Perspectives is required for new freshmen or transfers with less than 24 hours2

[See student degree audit for approve course list.](#)

3

One three (3) hour study abroad course may be used in fulfilling three (3) hours of Crop Science Electives.

## 8-Semester Plan

# Crop Science B.S.A.

~~Nine-Semester Degree Program Because the Crop Science program requires an internship, it doesn't qualify for the Eight-Semester Program.~~ [Eight-Semester Degree Program](#)

See more about the [Eight-Semester Degree](#) ~~[Eight-Semester Degree Policy](#)~~ for university requirements of the program.

First Year	Units	Fall	Spring	Summer
<u><a href="#">ENGL 1013</a></u> Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3			
<u><a href="#">MATH 1203</a></u> College Algebra (ACTS Equivalency = MATH 1103) (or higher level MATH (Satisfies General Education Outcome 2.1))	3			
Satisfies General Education Outcome 3.4:				
<u><a href="#">BIOL 1543</a></u> Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture)	4			
& <u><a href="#">BIOL 1541L</a></u> Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)				
<del>U.S. History or Government State Minimum Core Elective (Satisfies General Education Outcome 4.2)</del>	<del>3</del>	-	-	
<u><a href="#">CSES 1203 Introduction to Plant Sciences</a></u>	<u>3</u>	=	=	
<u><a href="#">UNIV 1001</a></u> University Perspectives	1			
<u><a href="#">CSES 2103</a></u> Crop Science	4			
& <u><a href="#">CSES 2101L</a></u> Crop Science Laboratory				
<del>CSES 1203 Introduction to Plant Sciences or BIOL 1613 and BIOL 1611L</del>	-	<del>3-4</del>	-	
<u><a href="#">ENGL 1023</a></u> Composition II (ACTS Equivalency = ENGL 1023) (If exempt, see adviser for communication courses.) (Satisfies General Education Outcome 1.1)	3			
<u><a href="#">COMM 1313</a></u> Public Speaking (ACTS Equivalency = SPCH 1003) (Satisfies General Education Outcomes 1.2 and 5.1)	3			
<u><a href="#">AGEC 1103</a></u> Principles of Agricultural Microeconomics (Satisfies General Education Outcome 3.3)	3			
<u><a href="#">US History or Government Core Elective (Satisfies General Education Outcome 4.2)</a></u> <sup>5</sup>	=	<u>3</u>	=	
Year Total:		14	16	

Second Year	Units		
	Fall	Spring	Summer
Satisfies General Education Outcome 3.4:			
<u>CHEM 1103</u> University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)	4		
& <u>CHEM 1101L</u> University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)			
or <u>CHEM 1073</u> and <u>CHEM 1071L</u>			
<del>ENGL 2003 Advanced Composition</del>	<del>3</del>	<del>-</del>	<del>-</del>
<del>or ENGL 3053 Technical and Professional Writing (ACTS Equivalency = ENGL 2023)</del>			
<del>Social Science State Minimum Core Elective (Satisfies General Education Outcome 3.3)</del>	<del>3</del>	<del>-</del>	<del>-</del>
<u>Social Sciences State Minimum Core Elective (Satisfies General Education Outcome 3.3)<sup>4</sup></u>	<u>3</u>	=	=
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) <sup>1, 2</sup>	3		
<del>Select one (1) course from Group A or B on checksheet</del>	<del>2-3</del>	<del>-</del>	<del>-</del>
<u>Crop Science Elective<sup>4,5</sup></u>	<u>3</u>	=	=
<u>Crop Science Elective<sup>4,5</sup></u>	<u>2-3</u>	=	=
<del>CHEM 2613 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)</del>	<del>-</del>	<del>4</del>	<del>-</del>
<del>&amp; CHEM 2611L Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)</del>			
<del>or CHEM 1123 and CHEM 1121L</del>			
<u>CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)</u>	=	<u>4</u>	=
<u>&amp; CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)</u>			
<u>or CHEM 2613 and CHEM 2611L</u>			
<u>ASTM 2903</u> Agricultural and Human Environmental Sciences Applications of Microcomputers		3	
or <u>STAT 2303</u> Principles of Statistics (ACTS Equivalency = MATH 2103)			
<del>Social Science State Minimum Core Elective (Satisfies General Education Outcomes 3.3 and 4.1)<sup>3</sup></del>	<del>-</del>	<del>3</del>	<del>-</del>
<u>Social Sciences State Minimum Core Elective (Satisfies General Education Outcomes 3.3 and 4.1)<sup>4</sup></u>	=	<u>3</u>	=
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) <sup>1, 2</sup>		3	
<del>Select one (1) course from Group A or B on checksheet</del>	<del>-</del>	<del>2-3</del>	<del>-</del>
<u>Crop Science Elective<sup>4,5</sup></u>	=	<u>2-3</u>	=
Year Total:	15	16	
Third Year	Units		
	Fall	Spring	Summer
<u>CHEM 2613 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)</u>	<u>4</u>	=	=
<u>&amp; CHEM 2611L Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)</u>			

or CHEM 1123 and CHEM 1121L

PLPA 3003 Principles of Plant Pathology 3

ENTO 3013 Introduction to Entomology 3

Select one (1) course from Group A on checksheet 2 - -

General Elective<sup>4</sup> 3 = =

CSES 2203 Soil Science 4

& CSES 2201L Soil Science Laboratory

~~General Elective or CHEM 2613/2611L~~ 4 - -

Select one of the following: - 3 -

BIOL 2323 General Genetics

BIOL 4303 ~~Course BIOL 4303 Not Found~~

ANSC 3123 Principles of Genetics 3

or POSC 3123 Principles of Genetics

or BIOL 2323 General Genetics

Select one (1) course from Group A or B on checksheet - 2-3 -

~~CPSC Requirement Elective~~ - 3 -

Crop Science Elective<sup>4,5</sup> = 2-3 =

Crop Science Elective<sup>4,5</sup> = 3 =

General Elective<sup>4</sup> 6

Year Total: 17 14

Fourth Year

Units

FallSpringSummer

CSES 3023 Crop, Soil, and Environmental Sciences Colloquium (Satisfies General Education 3

Outcome 6.1)

~~CSES 4133 Ecology and Morphology of Weedy and Invasive Plants~~ 3 - -

CSES 4224 Soil Fertility 4

~~CPSC Requirement Elective~~ 3 - -

Crop Science Elective<sup>4,5</sup> 3 = =

Crop Science Elective<sup>4,5</sup> 2-3 =

Crop Science Elective<sup>4,5</sup> 3 = =

CSES 4013 Advanced Crop Science 3

~~CPSC Requirement Elective~~ - 3 -

~~General Electives<sup>4</sup>~~ - 0-7 -

CSES 4143 Principles of Weed Control = 3 =

Crop Science Electives OR General Electives<sup>2</sup> = 0-7 =

Year Total: 16 12

Third Year

Units

FallSpringSummer

Choose 3 hours from the following: - - 3

~~CSES 462V Internship (Satisfies General Education Outcome 6.1)~~

~~CSES 400V Special Problems~~

~~AFLS 401V Special Topics in AFLS~~

Year Total:

Total Units in Sequence:

120

1

The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include:

[ARCH 1003](#), [ARHS 1003](#), [COMM 1003](#), [DANC 1003](#), [LARC 1003](#), [MLIT 1003](#), [MLIT 1003H](#), [MLIT 1013](#), [MLIT 1013H](#), [MLIT 1333](#), [THTR 1003](#), [THTR 1013](#), or [THTR 1013H](#).

2

The Humanities Elective courses which satisfy General Education Outcome 3.2 include: [AAST 2023](#), [ANTH 1033](#), [ARCH 1013](#), [CLST 1003](#), [CLST 1003H](#), [CLST 1013](#), [COMM 1233](#), [DANC 1003](#), [ENGL 1213](#), [GNST 2003](#), [HIST 1113](#), [HIST 1113H](#), [HIST 1123](#), [HIST 1123H](#), [HIST 2003](#), [HIST 2013](#),

[HUMN 1124H](#), [HUMN 2213](#), [LALS 2013](#), [MRST 2013](#), [MUSY 2003](#), [MUSY 2003H](#), [PHIL 2003](#), [PHIL 2003C](#), [PHIL 2003H](#), [PHIL 2103](#), [PHIL 2103C](#), [PHIL 2303](#), [THTR 1003](#), [THTR 1013](#), [THTR 1013H](#), [WLIT 1113](#), [WLIT 1123](#), or intermediate-level world language (usually 2003-level).

3

The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1

include: [ANTH 1023](#), [COMM 1023](#), [HDFS 1403](#), [HDFS 2413](#), [HIST 1113](#), [HIST 1113H](#), [HIST 1123](#), [HIST 1123H](#), [HIST 2093](#), [HUMN 1114H](#), [HUMN 2114H](#), [INST 2813](#), [INST 2813H](#), [PLSC 2013](#), [PLSC 2813](#), [PLSC 2813H](#), [RESM 2853](#), [SOCI 2013](#), [SOCI 2013H](#), or [SOCI 2033](#).

4

Students must complete 40 hours of upper division courses (3000-4000 level). It is recommended that students consult with their academic adviser when making course selections.

5

See student degree audit for approved course list.

Are Similar Programs available in the area?

No

Estimated Student Demand for Program 50

Scheduled Program ~~2019-~~ 2029-2030

Review Date ~~2020~~

Program Goals and Objectives

**Program Goals and Objectives**

### Program Goals and Objectives

1. Graduates have the discipline-specific knowledge in crop sciences required to perform successfully in private, government, or academic entry-level positions.
2. Graduates are able to critically analyze, synthesize, and evaluate new information to make informed decisions.
3. Graduates have the ability to solve complex, multidisciplinary problems.
4. Graduates are able to prepare and synthesize information to effectively communicate, both orally and in writing.

### Learning Outcomes

#### Learning Outcomes

1. Students will demonstrate the discipline specific knowledge required to function as crop science professionals.
2. Students will demonstrate the ability to critically evaluate situations or scenarios to arrive at well thought out and supported decisions and outcomes.
3. Students will demonstrate the ability to work through and solve complex, multidisciplinary problems.
4. Communication skills
  - a. Students will demonstrate the skills required to effectively communicate technical/scientific information in oral platforms.
  - b. Students will demonstrate the ability to integrate, organize, and effectively present written reports of technical/scientific information.

### Description and justification of the request

**Description of specific change**

**Justification for this change**

Description of specific change	Justification for this change
<p>Overview of changes to Crop Science degree sheet</p> <ul style="list-style-type: none"> <li>• Simplification of degree sheet <ul style="list-style-type: none"> <li>o Removal of minor requirement</li> <li>o Increased flexibility by replacing Groups with Crop Science Core and Crop Science Electives</li> </ul> </li> <li>• Communications <ul style="list-style-type: none"> <li>o Removed ENGL 2003 OR ENGL 3053 requirement</li> <li>o Reduced hours from 15 to 12</li> </ul> </li> <li>• US History or Govt. – no change</li> <li>• Mathematics and Computer Science – no change</li> <li>• Physical and Biological Sciences <ul style="list-style-type: none"> <li>o Biol 1613 + 1611L removed</li> <li>o CSES 1203 moved to Crop Science Core</li> <li>o BIOL 4303 removed – no longer offered</li> <li>o Reduced hours from 18 – 23 to 15 – 19</li> </ul> </li> <li>• Fine Arts – no change</li> <li>• Social Sciences – no change</li> <li>• Crop Science Core (changed from Departmental Core – Agronomy) <ul style="list-style-type: none"> <li>o CSES 1203 moved here from Physical and Biological Sciences section</li> <li>o CSES 462V, and CSES 400V moved to Crop Science Electives</li> <li>o Required hours changed from 26 to 27</li> </ul> </li> <li>• Crop Science Electives <ul style="list-style-type: none"> <li>o Students select 21 hours – unless noted below, courses were previously on the degree sheet under Group A - G</li> <li>o CSES 3XX3 Precision Agriculture in Crops added – new course currently taught as a special topics and proposed for Spring 2024</li> </ul> </li> <li>• General electives <ul style="list-style-type: none"> <li>o Changed from 10 – 18 hours to 16 – 20</li> </ul> </li> <li>• Footnotes <ul style="list-style-type: none"> <li>o 4 – Replaced “General Agronomy” with “Crop Science Electives”</li> <li>o 5 - 8 removed – no longer needed</li> </ul> </li> </ul>	<p>Changes are to simplify the degree check sheet to facilitate student advising and degree completion.</p>

Upload attachments

[23-24 proposed cpscbs-8sdcp.docx](#)

[23-24-cpscbs-proposed V4.docx](#)

#### Reviewer Comments

**Alice Griffin (agriffin) (09/12/22 10:10 am):** CSES 3703 (course in red) is a new course pending approval process.

**Alice Griffin (agriffin) (09/12/22 10:45 am):** While the edits look significant, the total net changes appears to be ten hours. Thus, this request may move forward as a minor change.

**Alice Griffin (agriffin) (09/12/22 3:37 pm):** Removed ACOM 3143 from the description with permission from submitter.

**Alice Griffin (agriffin) (09/12/22 3:41 pm):** Moved footnote 3 from Social Sciences header to Crop Science electives. Also removed footnote 4 notation from Special Problems with permission from submitter.

**Alice Griffin (agriffin) (09/12/22 3:42 pm):** Edited statement in Eight Semester Plan header with permission from submitter.

**Alice Griffin (agriffin) (09/12/22 3:43 pm):** ATTENTION: Due to changes including ARSC, this minor program change will require campus approval.

**Alice Griffin (agriffin) (09/12/22 3:45 pm):** Updated submitter contact information.

**Alice Griffin (agriffin) (11/01/22 12:30 pm):** Changed reason for modification from minor changes that qualify for the shortened approval workflow to making changes to an existing degree because this change includes courses from another college.

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