

Date Submitted: 09/03/23 11:49 am

Viewing: **CPBT-M : Crop Biotechnology Minor**

Last approved: 05/10/19 4:29 pm

Last edit: 12/08/23 9:26 am

Changes proposed by: msavin

Catalog Pages Using
this Program

[Crop Science \(CPSC\)](#)

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

Submitter: User ID: [msavin calison](#) Phone:
[575-5740](#) ~~575-6731~~

Program Status Active

Academic Level Undergraduate

Type of proposal Minor

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)

Effective Catalog Year 08152024

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

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

Program Code CPBT-M

Degree Minor

CIP 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. ENGR Dean
10. AFLS Dean
11. Global Campus
12. Provost Review
13. Undergraduate Council
14. Faculty Senate
15. Provost Final
16. Registrar Final
17. Catalog Editor Final

Approval Path

1. 10/19/23 1:13 pm
Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 11/03/23 5:06 pm
Lisa Kulczak (lkulcza): Approved for Director of Curriculum Review and Program Assessment

3. 11/06/23 8:37 am
Gina Daugherty
(gdaugher):
Approved for
Registrar Initial
4. 11/06/23 11:05 am
Doug Miles
(dmiles): Approved
for Institutional
Research
5. 11/07/23 12:41 pm
Jeff Edwards
(jeffrey): Approved
for CSES Chair
6. 12/12/23 2:10 pm
Nathan Kemper
(nkemper):
Approved for CSES
Curriculum
Committee
7. 02/15/24 11:26 am
Casey Owens
Hanning
(cmowens):
Approved for AFLS
Faculty
8. 02/15/24 11:31 am
Christopher Liner
(liner): Approved for
ARSC Dean
9. 02/16/24 8:43 am
Kevin Hall (kdhall):
Approved for ENGR
Dean
10. 02/16/24 8:58 am
Lona Robertson
(lrobert): Approved
for AFLS Dean
11. 02/16/24 9:25 am
Suzanne Kenner
(skenner): Approved
for Global Campus

12. 02/16/24 5:53 pm

Matthew Ganio
(msganio):
Approved for
Provost Review

History

1. May 3, 2018 by
Charlie Alison
(calison)
2. May 10, 2019 by
Mary Savin (msavin)

26.1201 - Biotechnology.

Program Title

Crop Biotechnology Minor

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

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

Yes No

College(s)/School(s)

College/School Name
<u>Fulbright College of Arts and Sciences (ARSC)</u>
<u>College of Engineering (ENGR)</u>

What are the total hours needed to complete the program? 16

Program Requirements and Description

Requirements

Minor in Crop Biotechnology (CPBT-M)

A student planning to minor in Crop Biotechnology must notify the program adviser for consultation and more detailed information. The Crop Biotechnology Minor consists of 16 hours of courses and to include the following:

Core Courses

<u>PLPA 4333</u>	<u>Course PLPA 4333 Not Found</u>	<u>3</u>
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<u>PLPA 43303</u>	<u>Biotechnology in Agriculture</u>	<u>3</u>
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<u>CSES 41003</u>	<u>Plant Breeding</u>	<u>3</u>
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Genetics

<u>CSES 400V</u>	<u>Course CSES 400V Not Found (two 2-hour courses taken in two different semesters)</u>	<u>4</u>
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<u>CSES 4000V</u>	<u>Special Problems (two 2-hour courses taken in two different semesters)</u>	<u>4</u>
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Select one of the following:		<u>3</u>
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<u>BIOL 2323</u>	<u>Course BIOL 2323 Not Found</u>
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<u>ANSC/POSC 3123</u>	<u>Course ANSC 3123 Not Found</u>
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<u>BIOL 23373</u>	<u>General Genetics</u>
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<u>ANSC/POSC 31203</u>	<u>Principles of Genetics</u>
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Controlled Electives

Select two of the following:		<u>6</u>
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<u>BIOL 4303</u>	<u>Course BIOL 4303 Not Found</u>
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<u>CHEM 3813</u>	<u>Course CHEM 3813 Not Found</u>
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<u>CSES 4103</u>	<u>Course CSES 4103 Not Found</u>
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Select one from the following:		<u>3</u>
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<u>CHEM 38103</u>	<u>Elements of Biochemistry</u>
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<u>CSES 37003</u>	<u>Precision Agriculture for Crops</u>
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<u>BENG 31103</u>	<u>Measurement and Control for Biological Systems</u>
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<u>BENG 41203</u>	<u>Biosensors & Bioinstrumentation</u>
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<u>BIOL 25473</u>	<u>Cell Biology</u>
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<u>BIOL 42373</u>	<u>Genomics and Bioinformatics</u>
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<u>BIOL 45803</u>	<u>Genetic Engineering</u>
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8-Semester Plan

Are Similar Programs available in the area?

No

Estimated Student Demand for Program NA

Scheduled Program Review Date NA

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.

NA

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.

NA

Description and justification of the request

Description of specific change	Justification for this change
Plant physiology is being deleted from the course options. A BENG and three BIOL are being added to the controlled electives, which is being reduced from 6 to 3 hours. Plant	Some changes have to be made because the Plant Physiology (BIOL) course is no longer being offered. In order to attract students from a wider

Description of specific change	Justification for this change
Breeding is being moved from the controlled electives to the core.	range of majors, course options from BENG and BIOL are being added to the controlled electives, which is being reduced from 6 to 3 hours. Plant Breeding is being moved from the controlled electives to the core because it is a core course and there is a new faculty member who has been hired who can now teach the course.

Upload attachments

[24-25-cpbt-m-proposed.docx](#)

Reviewer Comments

Lisa Kulczak (lkulcza) (11/03/23 5:05 pm): Adjusted reason for proposal; because courses are being added/removed that impact other colleges, this proposal does not qualify for the shortened approval process. However, it only requires campus approval.