

Minor in Biological Sciences P-2

For Academic Programs Office Use Only
R. E. _____ Catalog _____ File _____

PROGRAM CHANGE PROPOSAL - Form P-2

COLLEGE CHABSS CoBA CoEHHS CSM

TITLE OF PROGRAM Biological Sciences Discipline

Check one: Change to Program Program Deletion

TITLE OF DEGREE PROGRAM: Minor in Biological Sciences

This form is the signature sheet for a change to, or deletion of, an existing program. Note that the addition of a new option/concentration/emphasis/track is a new "program," and requires the use of Form P.

For a change to a program,

1. Attach a page (or pages) giving a brief summary of the purpose of this proposal, and its connection to the mission and student learning outcomes of the program.
2. Attach catalog copy showing exactly how the program should appear in the catalog if the changes are approved.

For a program deletion, attach a statement explaining the impact on students: how will the program be "taught-out" for declared majors?

Does this proposal impact other disciplines or units? Yes No If yes, obtain signature(s). Any objections or concerns should be stated in writing and attached to this form. Please check the box to indicate whether a memo has been attached.

_____ Discipline/Unit	_____ Signature	<input type="checkbox"/>	_____ Date	_____ Support	_____ Oppose
_____ Discipline/Unit	_____ Signature	<input type="checkbox"/>	_____ Date	_____ Support	_____ Oppose
_____ Discipline/Unit	_____ Signature	<input type="checkbox"/>	_____ Date	_____ Support	_____ Oppose
_____ Discipline/Unit	_____ Signature	<input type="checkbox"/>	_____ Date	_____ Support	_____ Oppose

1. Deborah Kristan 9/8/17 Date
Originator (Please Print)

2. [Signature] 9/8/17 Date
Program/ Department - Director/Chair

APPROVAL PROCESS

3. [Signature] 9/19/17 Date
College Curriculum Committee^

4. [Signature] 10/2/17 Date
College Dean (or Designee)*

5a. _____ _____ Date
University Curriculum Committee^

5b. _____ _____ Date
Budget and Long-Range Planning Committee (if applicable)^

6. _____ _____ Date
Academic Senate

7. _____ _____ Date
Provost (or Designee)

8. _____ _____ Date
President

9. _____ _____ Date
Date to Chancellor's Office (if applicable)

* Where appropriate, attach a memo on program impact on the unit and the ability of the unit to support it. Check the box next to the signature line to indicate whether a memo has been attached.
^ Where appropriate, attach a memo summarizing the curricular and/or resource deliberations. Check the box next to the signature line to indicate whether a memo has been attached.



RP _____
Revised 10/10/13
Tracker _____
PS _____

Proposed changes to the Minor in Biological Sciences.

1. The purpose of this change is to add one course, Bio 212: Evolution, to the minor. Bio 212 was added to the major in Biological Sciences and is now also a pre-requisite for two of the four core courses. These core courses are also required for the minor. So as not to add units to the minor, we proposed to add the three unit Bio 212 course and then let students choose to take three of the four core courses, rather than requiring all four core courses as is the current requirement. This change will better address student learning outcome # 2, part 4: 'Apply knowledge of the major principles from the fundamental areas of 1: cellular and molecular biology, 2) genetics, 3) physiology, and 4) ecology and evolution to biological questions. This supports our mission where "Students completing our program are well educated in the practice and knowledge of science and are well prepared to be productive members of society."

2. Proposed new catalog copy:

From page 328 of the current catalog.

MINOR IN BIOLOGICAL SCIENCES

Lower-Division (17 units)

CHEM 150

BIOL 210

BIOL 211

BIOL 215

Bio 212

Upper-Division (17 units)

BIOL 351

BIOL 352

BIOL 353

BIOL 354

Total Units

Units

5

4

4

4

3

Units

5

4

4

4

~~34~~

32-33

← Must take 3 of the following four courses

BIOLOGICAL SCIENCES MINOR

- This worksheet is intended for supplemental use only. The University will use your Academic Requirements Report (ARR) to track your graduation requirements, including those for your major. Please continue to check your Student Center and ARR for accuracy.
- If your ARR requires a correction, please submit an ARR Correction Form at www.csusm.edu/academicadvising.
- All courses used for the minor must be completed with a grade of C (2.0) or higher.
- All non-articulated courses MUST be reviewed and approved by a faculty advisor.
- Students are advised that some courses have prerequisites and should plan courses accordingly.

LOWER-DIVISION COURSEWORK (20 UNITS)

IP	✓	Course	Units
<input type="checkbox"/>	<input type="checkbox"/>	CHEM 150: General Chemistry (*ELM and High School Chemistry or CHEM 101)	4
<input type="checkbox"/>	<input type="checkbox"/>	CHEM 150L: General Chemistry Lab (+CHEM 150)	1
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 210: Introduction to Cellular and Molecular Biology (+CHEM 150)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 211: Introduction to Organismal & Population Biology (*BIOL 210)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 212: Evolution	3
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 215: Experimental Design & Statistical Analysis	4

UPPER-DIVISION COURSEWORK (12-13 UNITS)

Three of the four following courses are required:

IP	✓	Course	Units
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 351: Molecular Cell Biology (*BIOL 210, 211, 215)	5
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 352: Genetics (*BIOL 210, 211, 212, 215)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 353: Comparative Animal Physiology (*BIOL 210, 211, 215)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 354: Principles of Ecology (*BIOL 210, 211, 212, 215)	4

BIOLOGICAL SCIENCES MINOR

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<input type="checkbox"/>	<input type="checkbox"/>	CHEM 150L: General Chemistry Lab (+CHEM 150)	1
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 210: Introduction to Cellular and Molecular Biology (+CHEM 150)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 211: Introduction to Organismal & Population Biology (*BIOL 210)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 215: Experimental Design & Statistical Analysis	4

UPPER-DIVISION COURSEWORK (17 UNITS)

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<input type="checkbox"/>	<input type="checkbox"/>	BIOL 353: Comparative Animal Physiology (*BIOL 210, 211, 215)	4
<input type="checkbox"/>	<input type="checkbox"/>	BIOL 354: Principles of Ecology (*BIOL 210, 211, 212, 215)	4

*prerequisite; +pre- or co-requisite