CALIFORNIA STATE UNIVERSITY SAN MARCOS

Academic Programs

Minor in Biological Sciences P2

For Academic Programs Office Use Only

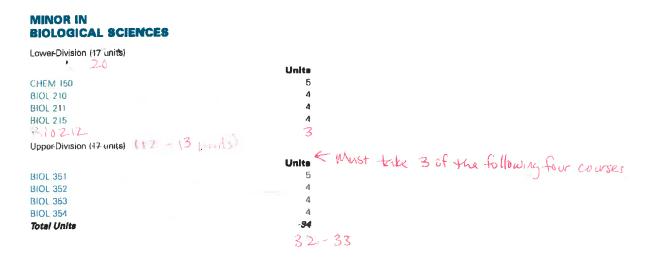
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	PROGRAM	I CHANGE PR	OPOSAL - F	orm P-2		
COLLEGE CHABSS	□ СоВА □ СоЕННЅ 🛚	CSM				
TITLE OF PROGRAM	Biological Sciences				Discipline	
Check one:	o Program	Pro	gram Deletion			
TITLE OF DEGREE PRO	OGRAM: Minor in Biok	ogical Sciences				
	This form 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.					
learning outcomes 2. Attach catalog cop	by showing exactly how the	program should app	ear in the catalog	if the change	s are approved.	
For a program deletion, attamajors?	ach a statement explaining th	e impact on studen	s: how will the pr	rogram be "ta	ught-out" for dec	lared
Does this proposal impact other d	isciplines or units?Yes	No If yes, ob	tain signature(s).			
Discipline/Unit Discipline/Unit	d be stated in writing and attached to Signature Signature	this form. Please check	Date Date	hether a memo fSupportSupportSupport	Oppose Oppose Oppose Oppose	
Discipline/Unit Discipline/Unit	Signature Signature		Date	Support	Oppose	
1. Delboral Kris Originator (Please Print)	stan 9/8/13	7 2. Proj	Lam/ Department - Direct	ctor/Chair	9(8 Dat	[17
3. College Curriculum Committee	9 (19/ Date	APPROVAL PROCE	ege Dean (or Designee)*			7
5aUniversity Curriculum Commi	ttee^ Date	5bBud	get and Long-Range Plan	nning Committee (i	f applicable)^	Date
6Academic Senate	Date	7. Prov	ost (or Designee)		Da	e
8. President	Date	9Date	to Chancellor's Office (if applicable)		
indicate whether a memo has l	memo summarizing the curricul	-				

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.



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
	Ш	CHEM 150: General Chemistry (*ELM and High School Chemistry or CHEM 101)	4
		CHEM 150L: General Chemistry Lab (+CHEM 150)	1
		BIOL 210: Introduction to Cellular and Molecular Biology (+CHEM 150)	4
		BIOL 211: Introduction to Organismal & Population Biology (*BIOL 210)	4
		BIOL 212: Evolution	3
		BIOL 215: Experimental Design & Statistical Analysis	4

UPPER-DIVISION COURSEWORK (12-13 UNITS)

Three of the four following courses are required:

IP	✓	Course	Units
		BIOL 351: Molecular Cell Biology (*BIOL 210, 211, 215)	5
		BIOL 352: Genetics (*BIOL 210, 211, 212, 215)	4
		BIOL 353: Comparative Animal Physiology (*BIOL 210, 211, 215)	4
		BIOL 354: Principles of Ecology (*BIOL 210, 211, 212, 215)	4

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LOWER-DIVISION COURSEWORK (17 UNITS)

_IP	<u> </u>	Course	Units
	Ш	CHEM 150: General Chemistry (*ELM and High School Chemistry or CHEM 101)	4
		CHEM 150L: General Chemistry Lab (+CHEM 150)	1
		BIOL 210: Introduction to Cellular and Molecular Biology (+CHEM 150)	4
		BIOL 211: Introduction to Organismal & Population Biology (*BIOL 210)	4
		BIOL 215: Experimental Design & Statistical Analysis	4

UPPER-DIVISION COURSEWORK (17 UNITS)

IP ✓	Course	Units
	BIOL 351: Molecular Cell Biology (*BIOL 210, 211, 215)	5
	BIOL 352: Genetics (*BIOL 210, 211, 212, 215)	4
	BIOL 353: Comparative Animal Physiology (*BIOL 210, 211, 215)	4
	BIOL 354: Principles of Ecology (*BIOL 210, 211, 212, 215)	4