Camornia State C		Marc	os • COURSE	CHANGE	(S) •	FURINI C-	<u> </u>	
ORIGINATOR'S SECTION: 1. College: CHABSS COBA COEHHS CSM			Desired Term and Year of Implementation (e.g., Fall 2008): Fall 2018					
2. Current Cour BIOL 480	se abbreviation	and N	Number:					
TYPE OF CHANG	E(S) Cheek alo	II that	t annly					
Course Number		Tua	Delete Prerequisite			Other Prere	quisite Change	TO
Course Title Cha	ange 🔲 Ad		Add Corequisite			Grading Me	thod Change	
Unit Value Chan	e Delete Corequisite				Mode of Inst Number	truction Change (C/S		
Description Char	nge [Add Consent for Enrollment				G.E. If yes, also fill opriate GE form.	
Add Prerequisite	Prerequisite 🖂		Delete Consent for Enrollment			Cross-list		
Inform	nation in this s	sectio	n– both current and ne				ked (√) above.	
				NEW INFORMATION:				
CUDDENT INE		Course abbreviation and Number:						
CURRENT INFO	URMATION:			Title: (Titles 1	ısina iara	on slana com	vrighted names, trade	
Bioinformat	ics						ion may not be used.)	
						-		
4. Abbreviated Tit				Abbreviated Title for PeopleSoft:				
(no more than 23 C	naraciers):			(no more than 25 characters, including spaces)				
5. Number of Unit		Number of Units:						
6. Catalog Descrip	ntion:			Catalog Description: (Not to exceed 80 words; language should				
or enumer 2 court							ult the catalog for mode	
An overview of the field of bioinformatics, which lies at the				of style and format; include all necessary information regarding				
	biology and computer nction of genes, proteins,	consent for enrollment, pre- and/or corequisites, repeated						
and whole genomes		enrollment, crosslisting, as detailed below. Such information does <u>not</u> count toward the 80-word limit.)						
			pination of lecture/class					
discussions and han		An overview of the field of bioinformatics, which lies at the						
behind bioinformati			used in genome cture and three hours	crossroads between the fields of molecular biology and computer science, and examines the structure and function of genes, proteins,				
laboratory. Prerequ				and whole genomes through the use of computation analysis,				
Biological Sciences		statistics, and pattern recognition. A combination of lecture/class						
							the use of, and theory	
	FAR	=6	FIVER	behind bioinformatics algorithms/software used in genome analysis will be presented. <i>Three hours lecture and three hours</i>				
(\$)	B B	-	- M	laboratory. Prerequisites: BIOL 351 or BIOL 352 or BIOT 355,				
	R	0C	T 1 1 2517	or enrollment	in the Bio	logical Science	s graduate program.	
7. Mode of Instruc	tion* (See nage	es 17.	23 at http://www.calstate.ea	lu/cim/data_elev	n_dic/API	R-Transaction	n_DFD_SectionV ndf for	
definitions of the Co				m/ci//b ditta cic/	1 (110/11 1	D-17ansaciio	i-DED-Section r.pm jor	
Type of Instruction	Number of Credit Units	(nstructional Mode Course Classification	Type of Instruction		mber of edit Units	Instructional Mode (Course Classification	
			Number)				Number)	
Lecture				Lecture				
Activity				Activity				
Lab				Lab				
8. Grading Method	d:*			Grading Meth	nod:*			
☐ Normal (N) (Al	lows Letter Grad		and Credit/No Credit)	Normal (N	N) (Allows		+/-, and Credit/No Credit	
	eport-in-Progress No Credit, and R		(Allows Letter Grade				NP) (Allows Letter Grade	e
+/-, Creau/.		eport-	-ın-r rogress)	+/-, C			ort-in-Progress)	

^{*}If Originator is uncertain of this entry, please consult with Program Director/Chair.

CURRENT INFORMATION:	NEW INFORMATION:
☐ Credit/No Credit or Report-in-Progress Only (CP))	Credit/No Credit or Report-in-Progress Only (CP))
9. If the NP or CP grading system was selected, please explain the	e need for this grade option.
10. Course Requires Consent for Enrollment?	Course Requires Consent for Enrollment?
Yes No	Yes No
Faculty Credential Analyst Dean	Faculty Credential Analyst Dean
Program/Department/Director/Chair	Program/Department/Director/Chair
11. Course Can be Taken for Credit More than Once?	Course Can be Taken for Credit More than Once?
☐Yes ☐ No	│ □Yes □ No
If yes, how many times (including first offering)	If yes, how many times (including first offering)
12. Is Course Cross Listed: Yes No	Is Course Cross-listed? Yes No
If yes, indicate which course	If yes, indicate which course
	and check "yes" in item #17 below.
13. Prerequisite(s): BIOL 351, or enrollment in the Biological	Prerequisite(s): BIOL 351 or BIOL 352 or BIOT 355, or
Sciences graduate program.	enrollment in the Biological Sciences graduate program.
11.0	
14. Corequisite(s):	Corequisite(s):
15. Documentation attached:	
Syllabus Detailed Course Outline	
PROGRAM DIRECTOR/CHAIR - COLLEGE CURRICULUM	COMMITTEE SECTION:
(Mandatory information - all items in this section must be completed	
16. Does this course fulfill a requirement for any major (i.e. core	
for a major, majors in other departments, minors in other depart	ments? 🛛 Yes 🗌 No
If yes, please specify:	
Elective for Biological Sciences majors. I would also like to	add this course to the elective list for Biotechnology majors.
Please see attached catalog copy revision.	
17. Does this course change impact other discipline(s)? (If there is	s any uncontainty as to whather a particular dissipline is affected
check "yes" and obtain signature.) Check "yes" if the course is cross-	-listed Nes No
If yes, obtain signature(s). Any objections should be stated in writing	and attached to this form.
Biotechnology	10/1/12
Discipline	Oppose
Signature	Date
10 D(-) f(-) f	
18. Reason(s) for changing this course: Biotechnology majors are not required to take BIOL 212 as part of their major	or, but they have traditionally been able to take DIOL 252 on an election. Not
that the BIOL 212 prerequisite for BIOL 352 is enforced, Biotechnology major	s cannot easily enroll in the course and must get a hard convince quisite
waiver form the faculty member teaching BIOL 352. To remedy this situation,	the Biology Department agreed to waive the BIOL 212 prerequisite for
Biotech majors who are interested in taking BIOL 3552. There will be no chan	ge to the prerequisites for the Biology major, since the department wants
Biology majors to complete all required lower division Biology courses before	they move on to their upper division ones.
SIGNATURES : (COLLEGE LEVEL) :	
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	(UNIVERSITY LEVEL)
Matthew Escobar 9126/2017	(UNIVERSITY LEVEL)
Matthew Escobar 9 26/10 7 1-Originator (Please Print) Date	(UNIVERSITY LEVEL) 5. UCC Committee Chair Date
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1. Originator (Please Print) 10 5/17	5. UCC Committee Chair Date
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1. Originator (Please Print) 10 5/17	5. UCC Committee Chair Date
1. Originator (Please Print) 10 5/17	5. UCC Committee Chair Date
2. Program Director/Chair Date 10 9/17	UCC Committee Chair Date Vice President for Academic Affairs (or Designee) Date

Office of Academic Programs	Banner:	Catalog:	Revised 3/28/2007	