## CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

## **NEW COURSE PROPOSAL**

1. Catalog Description of the Course. [Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of \_\_\_ units); time distribution (Lecture \_\_\_ hours, laboratory \_\_\_ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]

PROGRAM AREA \_\_\_\_\_BIOLOGY\_

**NEWCRSFR 9/30/02** 

	BIOL 316 INVERTEBRATE ZOOLOGY. Three hours of lecture and some arthesis and evolutionary history of this diverse are conservation issues will also be highlighter	aboratory per was simple, single-a are invertebrate ray of animals w	celled protists to the	out backbones. Aspo Human interactions	ects of the ecology, physiology	
2.	Mode of Instruction.  Lecture	Units 3	Hours per Unit 1	Benchmark Enrollment		
	Seminar	3	1	20		
	Laboratory	1	3	20		
	Activity					
exp kno evo and nur	Invertebrate Zoology is a diversity survey lude ecology, physiology, evolution, conservosed (or reexposed) to key concepts an owledge.  Nearly all animals on the planet are inversolutionary patterns and processes. Ecological evolutionary history of various groups are merous instances in which humans and inverse A field trip to the rocky intertidal zone (assystem in which they are particularly promises.	rvation, etc. In t d principles, the tebrates. The d ral, physiological examined. Con retebrates interact at low tide) allo	this way, as the stu- hus sharpening at liversity will be prail and adapational aservation, medical	dents gain understand continuing to be resented in a phylogissues are constantly, economic and ma	nding of the target group, they are build upon their basic biological genetic context, which emphasizes by brought into play as the biology magement issues are also raised in	
Learning Objectives Students who successfully complete this course will be able to:						
	<ul> <li>explain the evolution of animal body plans from simple to complex.</li> <li>describe the classification system of invertebrate animals.</li> <li>apply basic physiological and ecological concepts to invertebrate animals.</li> <li>identify major invertebrate groups, and describe their key characteristics.</li> <li>identify human impacts on invertebrate populations, and the ecosystems in which they live.</li> </ul>					
4.	Is this a General Education Course If Yes, indicate GE category:	YES	<u>NO</u>			
	A (English Language, Communication,	Critical Thinki	ing)			

	B (Life Sciences)				
	C (Fine Arts, Literature, Languages & Cultures)				
	D (Social Perspectives)				
	E (Human Psychological and Physiological Perspectives)				
5.	Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]				
	<ol> <li>Introduction to scientific method, including the sciences of zoological classification and phylogenetics.</li> <li>Basic ecological and evolutionary principles.</li> </ol>				
	3. Survey of invertebrate phyla, from Protists to Chordates.				
	4. Human interactions with invertebrates.				
	5. Conservation and management issues.				
6.	<b>References.</b> [Provide 3 - 5 references on which this course is based and/or support it.]				
	Invertebrate Zoology by E.E. Rupert & R.D. Barnes. 1994. Brooks/Cole Publ. Co. Invertebrate Zoology Lab Manual by R.L. Wallace & W.K. Taylor. 2003. Prentice Hall.				
	Invertebrates, 2 <sup>nd</sup> edition by R.C. Brusca and G.J. Brusca. 2003. Sinauer				
	Intertidal Invertebrates of California by Robert Harding Morris, Donald P. Abbott, Eugene Clinton Haderlie. 19 University Press.				
7.	List Faculty Qualified to Teach This Course.				
	Biology faculty				
8.	Frequency.				
	a. Projected semesters to be offered: Fall Spring _X Summer				
9.	New Resources Required.				
	a. Computer (data processing), audio visual, broadcasting needs, other equipment				
	b. Library needs				
	c. Facility/space needs Equipped Biology lab, with capacity to maintain live invertebrate animals.				
	Collection of representative preserved specimens.				
	Concetion of representative preserved specimens.				
10.	Consultation.				
	Attach consultation sheet from all program areas, Library, and others (if necessary)				
11.	If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.				
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	Ching-Hua Wang5 Dec 03				
Pro	oposer of Course Date				