## CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

## **NEW COURSE PROPOSAL**

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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.]				
	BIOL 332. CANCER AND SOCIETY (3)				

Three hour lecture/discussion per week.

The underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, has on society. No credit given toward the biology major.

GenEd: B2, D, and Interdisciplinary

## 2. Mode of Instruction.

DROCDAM ADEA: PIOLOCY

	Units	Hours per Unit	Benchmark Enrollment
Lecture	3	1	30
Seminar			
Laboratory			
Activity			

**3. Justification and Learning Objectives for the Course.** (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

This is an upper division General Education course designed to acquant non-biology majors with the underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, will have on society. The prevalence of cancer in our society justifies the need for a wider understanding of this complex group of diseases and the regimes that are used for diagnosis and treatment.

Students completing this class should be equipped with the knowledge and skills to:

- 1. Apply inductive and deductive reasoning to evaluate the biological mechanisms that lead to the induction of cancer.
- 2. Assess the contribution of environmental and genetic factors to cancer causation.
- 3. Describe the latest techniques in the diagnosis and treatment of cancer.
- 4. Identify public health issues and concerns attributable to cancer.
- 5. Evaluate realistically information derived from current literature, news media and on-line sources on the causes, prevention and treatment of cancer..

## 4. Is this a General Education Course YES

If Yes, indicate GE category:

A (English Language, Communication, Critical Thinking)	
B (Mathematics & Sciences)	B2
C (Fine Arts, Literature, Languages & Cultures)	
D (Social Perspectives)	X
E (Human Psychological and Physiological Perspectives)	

- 5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]
  - Introduction
  - Characterisites of human cancer
  - The genetic basis of cancer

NEWCRSFR 9/30/02

	Diagnosis and treatment of cancer			
	Cancer Immunology			
	Prevention of cancer			
	Cancer epidemiology			
	The societal impact of cancer			
6.	<b>References.</b> [Provide 3 - 5 references on which this course is based and/or support it.]  1. <b>Cancer Biology</b> , by R.W. Ruddon, Oxford, 3 <sup>rd</sup> Ed, 2001, ISBN 0-1950-9691-6			
	<ol> <li>Biology of Cancer by R. Phillis, S. Goodwin and M. Palladino, Addison Wesley &amp; Benjamin Cummings, 2003, ISBN 0-8053-4687-0</li> </ol>			
	<ol> <li>Cancer The Evolutionary Legacy, by M. Greaves. Oxford, 2000, ISBN 0-1926-2834-8</li> <li>American Cancer Society: Informed Decisions, the Complete Book of Cancer Diagnosis, Treatment and Recovery,</li> </ol>			
	by GP Murphy, LB Morris and D Lange, Viking, 1997, ISBN 0-6708-5370-4.			
7.	List Faculty Qualified to Teach This Course.			
	Louise Lutze-Mann Biology Faculty			
0				
8.	Frequency.  a. Projected semesters to be offered: Fall _x Springx_ Summer			
9.	<ul> <li>New Resources Required.</li> <li>a. Computer (data processing), audio visual, broadcasting needs, other equipment</li> <li>b. Library needs</li> <li>c. Facility/space needs</li> </ul>			
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.			
	Louise Lutze-Mann 1-3-03			
Pro	oposer of Course Date			

Environmental factors in cancer