

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREA _____

- 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 333. EMERGING PUBLIC HEALTH ISSUES (3)

Three hours of lecture per week

Discussion of emerging infectious diseases and other health related issues with global concerns such as AIDS, tuberculosis, sexually transmitted diseases, cardiovascular diseases, animal and bird diseases which may be transmitted to people, food and blood safety issues, environmental public health hazards, immigration and public health issues, potential biological weapons and their impact on human and animal populations in the world and the ecosystem. Weekly two-hour lecturers.

GenEd: B2, E and Interdisciplinary

- 2. Mode of Instruction.**

	Units	Hours per Unit	Benchmark Enrollment
Lecture	<u>3</u>	<u>1</u>	<u>100</u>
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 elective course for students majoring in Biology and Environmental Science and Resource Management as well as an upper-division General Education course for all students who are interested in this topic. It is to study systematically major emerging infectious diseases and emerging health issues and concerns occurring in the world in recent years. It covers emerging infections and health problems in humans and animals caused by bacteria, viruses, fungi, parasites and protozoa as well as unhealthful human practices. Food and blood safety and public health issues will also be discussed.

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

1. Identify public health issues and concerns.
2. Assess contributing environmental and behavioral factors and infectious agents that lead to emerging infectious diseases and health problems.
3. Describe the reasons of the above factors that lead to public health problems and concerns.
4. Explain the mechanisms utilized by the microbial agents to cause emerging infectious diseases.
5. Critically assess the psychological, societal and economical impact of public health crises on human populations in their communities, countries and in the world.

- 4. Is this a General Education Course** YES **NO**

If Yes, indicate GE category:

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

- 5. Course Content in Outline Form.** [Be as brief as possible, but use as much space as necessary]

Outbreaks of bacterial, viral, fungal, parasitic and protozoan infections in human populations
Emerging infections in animals and xenotransplantation
Recent human infections and their psychological, societal, and economical impact

Epidemic infections versus food safety issues
Emerging infections versus blood safety issues
Other alarming public health issues and their impact on society
Deadly infectious agents, biological weapons and public safety

6. References. *[Provide 3 - 5 references on which this course is based and/or support it.]*

1. Emerging Infections 1, 2, 3, edited by W. M. Scheld, W. A. Craig, D. A. Armstrong and J. M. Hughes, ASM Press, 1998, 1999
2. Emerging Infectious Diseases, periodical from the National Institutes of Health
3. Emerging Infections: Biomedical Research Reports, Richard M. Krause (Editor), Academic Press; ISBN: 0124259316; (June 2000)
4. Journals in public and environmental health fields

7. List Faculty Qualified to Teach This Course.

Ching-Hua Wang or other biology faculty member

8. Frequency.

a. Projected semesters to be offered: Fall x Spring x Summer x

9. New Resources Required.

None

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.

<u>Ching-Hua Wang</u>	<u>1-3-03</u>
Proposer of Course	Date