

GE CRITERIA APPROVAL FORM

Course Number and Title:

BIOL 333. EMERGING PUBLIC HEALTH ISSUES (2)

Faculty Member(s) Proposing Course: Ching-Hua Wang

Indicate which of the following categories would be satisfied by this course by marking an "X" on the appropriate lines.

Courses may be placed in up to two GE categories as appropriate. Upper Division Interdisciplinary GE courses may be placed in two categories plus the UDIGE category.

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| | A1: Oral Communication |
| | A2: English Writing |
| | A3: Critical Thinking |
| | B1: Physical Sciences |
| x | B2: Life Sciences |
| | B3: Mathematics |
| | B4: Computers and Technology |
| | C1: Fine Arts |
| | C2: Literature |
| | C3: Languages & Cultures |
| | D: Social Perspectives |
| x | E: Human Psychological & Physiological Perspectives |
| x | Upper Division Interdisciplinary GE |

Lab Included? Yes _____ No X

Please provide a brief explanation of how the proposed course meets each of the criteria for the selected General Education categories.

BIOL 333 provides extensive discussion on 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. 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 encompasses biology, chemistry, statistics, demographics, medicine, and public health systems and policies, as well as human psychology, behavior and practices that lead to emerging public health crises. Students will examine the biology of diseases including emerging infectious diseases and chronic illnesses such as obesity, diabetes, hepatitis and heart disease, diseases caused by environmental factors or human behavior as well as diseases caused by infectious agents and their mechanisms of transmission. The impact of emerging public health problems on psychological well-being of individuals and human populations, on society and economy of local regions, countries and the world will be examined. The course builds skills in critical thinking and writing.

Students who successfully complete this course will be able 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.

Hence we feel that this course meets each of the criteria in GE categories B2, E and UPIGE.