

GE CRITERIA APPROVAL FORM

Course Number and Title: BIOL 331. Biotechnology in the Twenty-First Century

Faculty Member(s) Proposing Course: Louise Lutze-Mann

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.

A1: Oral Communication

A2: English Writing

A3: Critical Thinking

B1: Physical Sciences

B2: Life Sciences **X**

B3: Mathematics

B4: Computers and Technology

C1: Fine Arts

C2: Literature

C3: Languages & Cultures

D: Social Perspectives **X**

E: Human Psychological & Physiological Perspectives

Upper Division Interdisciplinary GE **X**

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.

BIOL331 will present recent advances in biotechnology and discuss their societal implications. Topics will include the processes and methods used to manipulate living organisms, or the substances and products from them, for use in medicine, agriculture,

food production, gene therapy, forensics and warfare. The social, ethical and political issues raised by modern biotechnology will be discussed.

This course is designed to provide students with an understanding of the methodologies that are employed in modern biotechnology, the history of the development of the use of biological materials in an industrial setting and the ethical, legal and social implications of modern biotechnology. Students will be required to apply inductive and deductive reasoning to analyze current issues in biotechnology. Hence we feel that this course meets each of the criteria in GE category B.