

GE CRITERIA APPROVAL FORM

Course Number and Title: BIOL 201. Principles of cell and molecular biology

Faculty Member(s) Proposing Course: Nancy Mozingo

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
x	B2: Life Sciences
	B3: Mathematics
	B4: Computers and Technology
	C1: Fine Arts
	C2: Literature
	C3: Languages & Cultures
	D: Social Perspectives
	E: Human Psychological & Physiological Perspectives
	Upper Division Interdisciplinary GE

Lab Included? Yes x No

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

BIOL 201 is one part of a two semester sequence in General Biology with a laboratory. This course focuses on the cellular and molecular aspects of biology including biomolecules, cell structure and function, cellular metabolism, genetics and physiology. In this course, students will be introduced to scientific methods and reasoning which will enhance their ability to think clearly and logically. Students will gain experience in finding and critically examining information by reading scientific literature. Students will be introduced to a broad range of topics in the biological sciences which will impart a basic understanding of life processes. Thus, this course meets the criteria for a category B2 course.

Students who successfully complete this course will be able to:

- Outline the structure of the biomolecules found in all living organisms
- Describe the function and structure of cells including the metabolic reactions that occur in cells
- Explain the process of inheritance
- Describe how RNA, DNA and proteins are synthesized
- Explain the process of cell division in both somatic and germ cells
- Explain the processes by which animals acquire nutrients, water and oxygen, eliminate wastes, protect against foreign substances, acquire information about their environment and reproduce.
- Generate a hypothesis from a set of observations and then design experiments to test the hypothesis