

GE CRITERIA APPROVAL FORM

Course Number and Title: PHYS 106 Applied Physics and Modern Society

Faculty Member(s) Proposing Course: Geoff Dougherty

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
X	B1: Physical Sciences
	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 _____ No X_____

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

This course is **GE** because of its breadth and applicability: students taking it will acquire the skills, experience and knowledge "appropriate to educated people within our society".

All Category B courses shall:

- Promote the understanding and appreciation of the methodologies of math or science as investigative tools and the limitations of mathematical or scientific endeavors.

→The course will present the scientific principles and concepts underpinning physics, highlighting the use of hypothesis and experimentation and their limitations.

- Present mathematical or scientific knowledge in a historical perspective and the influences of math or science on the development of world civilizations, both past and present.

→ The historical background of observations and theories in physics, and their utility and accuracy, will be addressed from the time of the ancient Greeks up to the present day.

- Apply inductive and deductive reasoning processes and explore fallacies and misconceptions in the mathematical or scientific areas.

→Critical reasoning skills will be used to explore prior technological solutions and to consider the process of combining imagination and ingenuity to scientific knowledge to obtain improved and novel solutions.

Category B-1 Physical Sciences—Chemistry, Physics, Geology, and Earth Sciences courses shall:

- Present the principles and concepts of the physical sciences and the physical universe.

→ Scientific principles and concepts, and their applications to novel instrumentation, will be discussed.