

## 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 historical misconceptions and to consider what needs to be known in order to clarify current thinking.

**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 physics, will be discussed.