GE CRITERIA APPROVAL FORM

Course Number and Title: Math 230 Logic and Mathematical Reasoning

Faculty member(s) proposing Course: Ivona Grzegorczyk, Prof. of Mathematics, Nikolaos Diamantis, Assistant Prof. of Mathematics

Indicate which of the following GE 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 (UDIGE) may be placed in two GE categories in addition to the UDIGE category.

	GE Category		
	A1:	Oral Communication	
	A2:	English Writing	
Х	A3:	Critical Thinking	
	B1:	Physical Sciences-Chemistry, Physics, Geology, and Earth Sciences	
	B2:	Life Sciences—Biology	
Х	B3	Mathematics—Mathematics and Applications	
	B4	Computers and Information Technology	
	C1	Art	
	C2:	Literature	
	C3a:	Language	
	C3b:	Multicultural	
	D:	Social Perspectives	
	E:	Human Physiological and Psychological Perspectives	
	Uppe	r Division Interdisciplinary GE	
	Lab Included? Yes No		

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

A3

- Analysis of statements of common language in a critical and rigorous manner.
- Introduction to inductive and deductive logic in a variety of everyday and scientific situations.
- Formal assessments of the logical soundness of statements and justifications.

- Abstracting information from common language and other forms of written, oral and symbolic communication of ideas.

- Common fallacies in inductive and deductive reasoning

B3

- Using logic to expressing and analyzing abstract mathematical ideas

- Mathematical proofs and problem solving.