## 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.


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
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B3

- Using logic to expressing and analyzing abstract mathematical ideas
- Mathematical proofs and problem solving.

