

Huron Brief Course Outlines

Fall/Winter 2023-2024

Course Title: Methods of Finite Mathematics

Course Number and Section

MATH

1228A - 551

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Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL is the official and authoritative source of information for the course.

Course Description:

Topics covered include techniques of counting, probability, discrete and continuous random variables.

Learning Outcomes:

Use the methods of finite mathematics to solve complex and novel problems
Communicate and use the language of mathematics relevant to the course effectively
Determine the number of possible combinations for a given situation using the different counting techniques such as counting trees, permutations, combinations, etc.
Demonstrate working knowledge of the concept of sample spaces and be able to identify appropriate sample spaces for probability situations.
Determine the probability of events using different tools such as equiprobable sample spaces, probability trees, Bayes' theorem, etc.
Use probability distribution functions and cumulative distribution functions of continuous and discrete random variables to compute the probabilities of events defined by the random variables.
Use continuous random variables to approximate the probability of events defined by discrete random variables.

Textbooks and Course Materials:

The material for this course will be presented online through the course OWL site.

Methods of Evaluation:

Assignment	Due Date mm/dd/yy	Weight - %
Assignment	10/27/2023	35
Final exam	Dec. TBD	40
Online Quizzes (weekly)	Ongoing	20

Assignment	Due Date mm/dd/yy	Weight - %
Best assignment and final exam		5

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.