

# MATH 356. HONOURS PROBABILITY.

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Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Fall 2025

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## Description

Sample space, probability axioms, combinatorial probability. Conditional probability, Bayes' Theorem. Distribution theory with special reference to the Binomial, Poisson, and Normal distributions. Expectations, moments, moment generating functions, uni-variate transformations. Random vectors, independence, correlation, multivariate transformations. Conditional distributions, conditional expectation. Modes of stochastic convergence, laws of large numbers, Central Limit Theorem.

- Fall
- Prerequisite(s): MATH 243 or MATH 255, and MATH 222 or permission of the Department.
- Restriction: Not open to students who have taken or are taking MATH 323

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