

## MATH1550W:- INTRODUCTION TO PROBABILITY

- **Who needs MATH 1550H :**  
A single or joint major honours or general programs in Computing Systems, or a minor in Computing Systems.  
A specialisation in Computer Science or Software Engineering.  
A specialisation Mathematical Finance, or Statistics.
- **Programs that recommend MATH1550H for the BSc math credit:**  
Chemistry: Single or joint major honours  
Biology: single or joint major honours in Biology
- **For whom MATH1550H is highly recommended:** Physics majors.
- For those of you who are planning to apply for admission into some professional schools (eg medicine) **MATH1550H does NOT count as the intro statistics course that these programs sometimes require**
- **Pre-requisites/co-requisites:**  
MATH1005H is a pre-requisite  
MATH1100 can be a co-requisite **or** a pre-requisite.
- **What MATH1550H is a pre-requisite for:** All upper year statistics, probability, and finance courses. So if you are interested in a finance or statistics specialisation, **we highly recommend you take MATH1550H in your first year.**
- **Curriculum:** Axioms of Probability. Conditional Probability, Independence.  
Discrete and continuous random variables. Expectation and variance. Probability distributions and multi-variate distributions. Laws of large numbers and the central limit theorem.
- **Instruction method:** Three lectures weekly and one seminar weekly where you will be tested.
- **Marking Scheme:** One or two assignments (worth 5% each)  
Best 8 of 10 tests (worth 5% each) 1 final (worth 40%) Best 20 of 30 short questions in lecture (worth 10% in total)