

# STA257H1 F

## Probability and Statistics I

### Fall 2025 Syllabus

## Course Meetings

### STA257H1 F

Section	Day & Time	Delivery Mode & Location
LEC0201	Monday, 3:00 PM - 5:00 PM	In Person: BR 200
	Wednesday, 3:00 PM - 4:00 PM	In Person: MC 102
TUT0101	Wednesday, 12:00 PM - 1:00 PM	In Person: SS 1074
TUT0102	Wednesday, 12:00 PM - 1:00 PM	In Person: SS 1084
TUT0103	Wednesday, 12:00 PM - 1:00 PM	In Person: SS 1088
TUT0201	Wednesday, 4:00 PM - 5:00 PM	In Person: BA 1240
TUT0202	Wednesday, 4:00 PM - 5:00 PM	In Person: WB 119
TUT0203	Wednesday, 4:00 PM - 5:00 PM	In Person: BA 2175
TUT0204	Wednesday, 4:00 PM - 5:00 PM	In Person: GB 220
TUT0205	Wednesday, 4:00 PM - 5:00 PM	In Person: WB 219

Refer to ACORN for the most up-to-date information about the location of the course meetings.

## Course Contacts

**Instructor:** Prof. Jeffrey Rosenthal  
**Email:** [j.rosenthal@math.toronto.edu](mailto:j.rosenthal@math.toronto.edu)  
**Phone:** 416-978-4594

## Course Overview

A mathematically rigorous introduction to probability, with applications chosen to introduce concepts of statistical inference. Probability and expectation, discrete and continuous random variables and vectors, distribution and density functions, the law of large numbers. The binomial, geometric, Poisson, and normal distributions. The Central Limit Theorem. (Note: STA257H1 does not count as a distribution requirement course).

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binomial, geometric, Poisson, and normal distributions. The Central Limit Theorem. (Note: STA257H1 does not count as a distribution requirement course).

**Prerequisites:** MAT137Y1/ MAT157Y1/ (MATA31H3, MATA37H3)/ MAT137Y5/ MAT157Y5/ (MAT137H5, MAT139H5)/ (MAT157H5, MAT159H5)

**Corequisites:** MAT237Y1/ MAT257Y1/ MAT257Y5; MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5

**Exclusions:** ECO227Y1, STA201H1, STA237H1, STA247H1, MAT370H1, MAT377H1, STAB52H3, STA256H5, ECO227Y5

**Recommended Preparation:** None

**Credit Value:** 0.5

## Marking Scheme

Assessment	Percent	Details	Due Date
Midterm #1	27%		2025-10-06
Midterm #2	27%		2025-11-12
Class Participation	5%		2025-09-03 - 2025-12-01
In-Person Final Exam	41%		Final Exam Period

### Late Assessment Submissions Policy

N/A

## Policies & Statements

### Missed Tests

If excused from a midterm, the corresponding weight will be shifted to the Final Exam.