ORIGINAL COURSE IMPLEMENTATION DATE: September 1994
REVISED COURSE IMPLEMENTATION DATE: September 2021
COURSE TO BE REVIEWED (six years after UEC approval)**:** January 2027
Course outline form version: 10/27/2017

OFFICIAL UNDERGRADUATE CROSS-LISTED OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: MATH 270	**Number of Credits:** 4 Course credit policy (105)

Course Full Title: Introduction to Probability and Statistics
Course Short Title: Intro to Probability and Stats
(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)

Faculty: Faculty of Science	**Department (or program if no department):** Mathematics & Statistics

Official Course Outline:

This is a cross-listed course. Please refer to **STAT 270** for the official course outline.

Calendar Description:

An introduction to the theory and practice of statistics for engineering and science students who have experience with calculus. Topics include descriptive statistics, probability, random variables and their probability distributions, sampling distributions, confidence intervals and hypothesis tests for means and proportions, Pearson's Chi-squared tests, correlation, and linear regression.

Note: This course is offered as STAT 270 and MATH 270. Students may only take one of these for credit.

Note: As a general rule, students with Mathematics 11 are prepared to take STAT 104, those with Mathematics 12 are prepared to take STAT 106, and those with a full year of calculus are prepared to take STAT/MATH 270. Before registering, students should check the requirements of their program. The Mathematics major program requires STAT/MATH 270, while the Mathematics minor program requires STAT 106 or STAT/MATH 270.

Prerequisites (or NONE):	One of the following: MATH 112, MATH 118, or a B or better in MATH 141.
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Antirequisite Courses *(Cannot be taken for additional credit.)* Former course code/number: Cross-listed with: **STAT 270** Dual-listed with: Equivalent course(s): *(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)*	**Transfer Credit** Transfer credit already exists: *(See **bctransferguide.ca**.)* ☐ No ☒ Yes Submit outline for (re)articulation: ☒ No ☐ Yes *(If yes, fill in transfer credit form.)*

Department / Program Head or Director: Ian Affleck	**Date approved:**	June 15, 2020
Faculty Council approval	**Date approved:**	September 11, 2020
Dean/Associate VP: Lucy Lee	**Date approved:**	September 11, 2020
Campus-Wide Consultation (CWC)	**Date of posting:**	n/a
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	January 29, 2021