ORIGINAL COURSE IMPLEMENTATION DATE: January 2012
REVISED COURSE IMPLEMENTATION DATE: September 2021
COURSE TO BE REVIEWED (six years after UEC approval)**:** March 2025
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: COMP 431	**Number of Credits:** 3 Course credit policy (105)

Course Full Title: Data Mining
Course Short Title:
(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 431** for the official course outline.

Calendar Description:

Data mining provides the techniques of extracting useful information and hidden patterns from a massive amount of data. Main topics include data exploration, classification, decision trees, Bayesian classifiers, frequent item sets, association rules, clustering, K-means, EM algorithm, and anomaly detection.

Note: This course is offered as STAT 431 and COMP 431. Students may take only one of these for credit.

Prerequisites (or NONE):	COMP 230 (formerly CIS 230), STAT 271, and STAT 331/COMP 331.
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Antirequisite Courses *(Cannot be taken for additional credit.)*	**Transfer Credit**
Former course code/number: **MATH 431**	Transfer credit already exists: *(See **bctransferguide.ca**.)*
Cross-listed with: **STAT 431**	☒ No ☐ Yes
Dual-listed with:	Submit outline for (re)articulation:
Equivalent course(s):	☒ No ☐ Yes *(If yes, fill in transfer credit form.)*
(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.)	

Department / Program Head or Director: Ian Affleck		**Date approved:**	June 15, 2020
Faculty Council approval		**Date approved:**	September 11, 2020
Dean/Associate VP:		**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