

INTE 296/STAT 2096

Discover Statistics

Section EC

Fall 2026

This syllabus is subject to change and any changes will be posted in the Announcements section of your eConcordia portal.

Disclaimer: In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

About the Course

The Instructional Team:

Instructor: Lisa Kakinami

Instructor Contact Information: STAT2096ec.mathstat@concordia.ca

Please allow for two business days for a response to e-mail inquiries. You may also post your question on the class discussion board, or to come to any of the drop-in office-hours.

Registration Notes

- **This course is listed as INTE 296 and STAT 2096. Course content and evaluation materials are identical across these cross-listings.**
- **Students in programs requiring a statistics course may not take this course for credit to be applied to their program of concentration.**
 - Students who have received credit for [BIOL 322](#), [COMM 215](#), [ECON 221](#), [ECON 222](#), [GEOG 362](#), [MAST 221](#), [MAST 333](#), [PSYC 315](#), [SOCI 212](#), [STAT 2096](#), [STAT 249](#), or for this topic under an [INTE 298](#) number, may not take this course for credit.

Course Logistics

This course uses eConcordia Moodle. Important announcements, updates, links to the textbook and MyLab can all be found there. The link to the eConcordia Moodle page can be accessed from the eConcordia dashboard. **Students are strongly encouraged to stay subscribed to the eConcordia Moodle announcements for this course, and to check the Moodle page on a regular basis.**

Course Description

No doubt that the field of statistics has become increasingly prevalent in modern society. As consumers, it is not simply a matter of deciphering what is presented to us, but it is also important to be conscious about what has not been divulged. The goal of this introductory-level course is to give you the tools to conduct research, analyze and interpret data, and most importantly, to make informed decisions.

This course develops the basic understanding of Statistics, which is a scientific discipline to interpret data and make inferences about populations from smaller subsets. The tools for understanding data evolve from the area of probability, the foundations of which are explored in the course.

The mathematical background necessary for the course is simply basic arithmetic and algebra and may be suited to students in social sciences and humanities. The student going through this course is expected to learn techniques useful for research methods in quantitative sciences. This introductory-level course is designed for students with basic mathematical skills (high school mathematics is all that is needed).

This course consists of 11 lessons; after a detailed introduction to the understanding of various types of data of interest through numerical summaries and visualization through lessons 1-3, lesson 4 deals with understanding relationship between two variables. The next two chapters introduce the concept of probability and probability distributions that help in understanding the methods of inference.

This is approximately half of the course. The rest of the course (Lessons 7-11) is devoted to understanding the statistical principles and methods for making decisions about populations, including proportions, means and relationships between variables. Using multiple procedures (z-score, t-test, etc.), the student will be able to use sample data to make inferences about a given population under investigation.

Use of AI

- *Learners are encouraged to make use of technology, including generative artificial intelligence tools, to contribute to their understanding of course materials, under the*

circumstances outlined below. To achieve favorable results with generative AI, it is essential to invest time in building knowledge in the target subject and refining prompts, as this enables learners to produce more accurate output while validating its accuracy and relevance to the topic at hand. Students who rely on AI without building their own understanding consistently perform poorly on the final. As the topics in the course build upon each other throughout the term, students should only use these tools to support their learning—not replace it.

- *Only some uses of ChatGPT or other AI tools are permitted. Prohibited uses and/or not sufficiently acknowledging use will be deemed misconduct under Concordia's Academic Code of Conduct. Learners who engage in these behaviours may be charged under Articles 18 (general cheating/plagiarism/dishonest behavior) and 19a (plagiarism) of the [Code](#). In this class, assignments and submitting outputs that contain incorrect information related to class concepts, inappropriate responses to assignment prompts, or details that you are unable to explain or discuss in detail is considered a misuse of GenAI.*

Course Material

The material for this course consists of a required textbook and the eConcordia Moodle website which includes the video lectures, assignments and other course material.

Required Textbook

Textbook Title: Introductory Statistics – Exploring The World Through Data

Author: Robert Gould, Colleen Ryan, Jim Stallard and Michelle Boué

ISBN10: 978-0321-82365-6

Publisher: Pearson, Toronto, Canada

Edition: Canadian Edition.

This textbook is only available online as an e-book through the course website. Once you purchase your account to access the online course, register your Texidium account first.

- The electronic textbook materials can be downloaded from Texidium Windows or Mac mobile apps.
- The electronic textbook materials can be printed in the Texidium desktop apps for Windows and Mac or the online version.
- Purchase of the e-book also allows access to online resources for the student. An important online resource is the web-based statistics software known as *StatCrunch* that will be explained and used throughout the course.

Calculators

Only calculators approved by the Department (with a sticker attached as a proof of approval), such as **Sharp EL 531** or the **Casio FX 300MS**, available at the Concordia Bookstore, are

permitted for the final examination. See <https://www.concordia.ca/artsci/math-stats/services.html#calculators> for details.

Course Website

The eConcordia Moodle can be accessed at www.econcordia.com. Your eConcordia account will be valid until the end of the term for which you are registered.

Your account will allow you to access the online course material, which includes videos, notes, discussion boards, all graded course components, useful links, readings and many more resources for the duration of the term.

Office Hours

In the eConcordia Moodle site, you will find the dates and times as well as the Zoom link to access the office hours of the TAs and the instructor. Office hours are to clarify and better assimilate the material of the course. They are **optional** sessions held at least once per week, online on zoom. Students are welcome to drop-in at any time during the posted hours with the instructor or any TA. If the instructor/TA is busy with another student, you'll be put in the waiting room. Each student will be allotted a maximum of 15-minute office hours at any given time – plan carefully what you want to ask to make the best use of the allotted time.

During office hours, we will be available to give a reasonable amount of help. We expect, however, that you have watched the videos and capsules corresponding to the topic you may have questions on; office hours are a space to ask specific questions about a concept, an example, or an assignment. They are not a space to ask your instructor or TA to “teach” you a topic.

Live Tutorials

The material in this course requires a lot of practice. The Department has therefore organized special online tutorial sessions to practice the course material. These tutorials are conducted weekly (after the DNE) to provide additional support to students. Students are strongly encouraged to participate and be active in these problem-solving sessions. Tutorials are an important resource to help students succeed in this course. The sessions will run on Zoom and the times and links to attend will be posted on the eConcordia Moodle site.

Use of Concordia email

Your [Concordia email](#) is the official channel for all university communications, as required by the university's [Policy on Concordia email accounts for students and employees](#). Please use your

Concordia email for all communication related to this course and check it regularly so you don't miss important information. [Learn more about how to access your Concordia email.](#)

As a student, you are expected to follow the email policy and to use your Concordia email in a respectful and responsible manner. The policy helps ensure that communication across the university is secure, reliable, and consistent.

Assessments

Graded Assessments:

Assignment 1 – Lessons 1 and 2	1.5%
Assignment 2 – Lesson 3	1.5%
Assignment 3 – Lesson 4	1.5%
Assignment 4 – Lesson 5	1.5%
Assignment 5 – Lesson 6	1.5%
Assignment 6 – Lesson 7	1.5%
Assignment 7 – Lesson 8	1.5%
Assignment 8 – Lesson 9	1.5%
Assignment 9 – Lesson 10	1.5%
Assignment 10 – Lesson 11	1.5%
Assignments (best 9 out of 10)	15%
Midterm – Lessons 1-6 (inclusively)	25%
Final Exam (in-person; will cover Lessons 1-11)	60%

Description of Graded Assessments

Assignments:

The assignments are based on the material learned through the examples, and practice questions. Students are expected to submit assignments online using MyLab. Late assignments will not be accepted. Assignments contribute 15% to your final grade. Working regularly on the assignments is essential for success in this course. The students may discuss the assignments amongst themselves, as this may provide a better understanding of the material provided, however, each student must submit their own assignment. Students are also strongly encouraged to do the practice problems in MyLab and the textbook. The lowest homework score will be automatically dropped.

Midterm:

There will be one midterm test online, administered via the MyLab platform, based on the material of assignments 1-6 (as listed in the course CONTENTS below). **The test will be held**

on **Wednesday, October 28, 2026**, and will be 90 minutes long. There is **no make-up or alternate midterm** test. For students who are unable to write the midterm test (for ANY reason), the final exam weight will be elevated automatically to 85% (as per the Grading Scheme below). It is strongly recommended, however, that students prepare themselves for, and do take the midterm test because:

- the midterm test may contribute up to 25% to the student's grade (see the Grading Scheme below), so it may help elevate the grade received in the course; and
- the midterm test is an important opportunity to get feedback on your progress in the course.

Final Exam:

The final exam will be a 3-hour **in-person** exam scheduled and managed by the Concordia Examination office covering material from Lessons 1-11.

Students are responsible for finding out the date, time and location of the final exams once the schedule is posted by the Examinations Office. Conflicts or problems with the scheduling of the final exam must be reported directly to the Examinations Office, not to your TA or instructor.

It is the University's policy that students are to be available until the end of the final exam period. Conflicts due to travel plans will not be accommodated.

Grades

It is your responsibility to ensure your work has been received and to contact your TA via e-mail for clarification if you have any questions concerning your grades. Your final letter grade for the course will be posted in your MyConcordia Portal at the end of the term.

Grading Scheme:

The final grade will be based on the higher of a) or b) below:

- a) 15% for the assignments
25% for the midterm test
60% for the final exam
- b) 15% for the assignments
85% for the final exam

Students must obtain 50% in the final exam to pass the course.

IMPORTANT: PLEASE NOTE THAT THERE IS NO "100% FINAL EXAM" OPTION IN THIS COURSE.

Grading Distribution

Letter Grade	% Grade		Letter Grade	% Grade	
A+	89 to	100	C	64 to	67.99
A	85 to	88.99	C-	60 to	63.99
A-	82 to	84.99	D+	57 to	59.99
B+	78 to	81.99	D	53 to	56.99
B	74 to	77.99	D-	50 to	52.99
B-	71 to	73.99	F	0 to	49.99
C+	68 to	70.99			

Policies:

Late Submissions and Extensions

- It is your responsibility to ensure that if you are unable to complete your work by the deadline or complete an assessment on the assigned date, you must request an extension beforehand from the instructor of the course. Extensions will be granted only to students who are able to provide a reasonable, verifiable, medical note **before** the deadline.
- In the case of emergencies, it is your responsibility to notify your instructor via e-mail or phone as soon as the issue arises in order to determine the course of action required for the matter at hand.
- If the assignment is incomplete (i.e., you omit answering questions, you do not provide any evidence of having worked out the problem), you will not be permitted to resubmit it with corrections.
- Vacations and travel plans (work-related or otherwise) are not considered valid reasons for late submissions or an inability to complete assignments and exams.

Important Information

Topic	Link
Academic Integrity	Academic Integrity
Educational Technology Guidelines	Concordia Educational Technology Guidelines for Faculty and Students (the "Guidelines")
Access Centre for Students with Disabilities	ACSD
Concordia Library Citation & Style Guides	How to cite...
Course Communication Tools	Communication
eConcordia Policies	Policies
Final Exams Information	Final Exams
Helpdesk/Support	FAQ
Refunds	Refunds
Technical Requirements	Technical Requirements
Tips for Studying Online	Studying Tips
Tips on how to reach online learning goals (learning modules)	How to Succeed @ eConcordia
How to install and use Zoom	Zoom Information

Texidium

Texidium is an eReader platform that puts your eTexts at your fingertips on any device, anywhere, and at any time.

Available online and for all popular platforms (iOS, Android, Windows, and Mac OS), Texidium is designed with the student learning experience in mind and sets a new standard for accessibility and convenience.

To install the Texidium App and to register your Texidium account to enable printing of the electronic textbook, visit: <https://reader.texidium.com/dist/#/apps>.

Texidium Support Hours:

- Monday to Friday, 6:00 am to 6:00 pm EST. This includes email, phone or chat support.
- Evening and night support is available via email only, from 6:00 pm to midnight.
- The communication channels for End-Users is available at <https://texidium.com/contact/>.
- Over the weekend, email support is from 8:00 am to midnight; however, it is a reduced team so response times may be a bit slower and prioritized by level of urgency.

INTE 296/STAT 2096 - Discover Statistics

Agenda

Fall 2026

All deadlines indicated are on the due date listed by 11:59 p.m. Eastern unless otherwise indicated.

Week 1: September 7 - September 13	
	Review the Course Outline and Agenda
	Navigate the Course Website
	Lesson 1: Introduction to Data
	Orientation Test available
	Basic Math Review
September 07	Labour Day, university closed
September 08	Classes begin
September 08	Discussion Board opens at 2 PM.
September 09	Assignment 1 (Lesson 1 and 2) opens
September 12	Orientation Test due
Week 2: September 14 - September 20	
	Lesson 2: Visualizing Data
	Orientation to StatCrunch https://www.youtube.com/watch?v=f-hMxX3Fbil&list=PLBE055F65E43B4973&index=2&t=0s
September 18	Assignment 1 due
September 19	Assignment 2 (Lesson 3) opens
Week 3: September 21 - September 27	
	Lesson 3: Numerical Summaries of Centre and Variation
September 21	Deadline to add fall-term courses

September 21	Deadline for withdrawal with tuition refund (DNE) from fall-term courses
September 25	Assignment 2 due
September 26	Assignment 3 (Lesson 4) opens
Week 4: September 28 - October 4	
	Lesson 4: Exploring Relationships Between Variables
October 02	Assignment 3 due
October 03	Assignment 4 (Lesson 5) opens
Week 5: October 5 - October 11	
	Lesson 5: Probability: The Tool for Describing Variation
October 09	Assignment 4 due
October 10	Reading week begins
Mid-term break: October 12 - October 18	
October 12	Thanksgiving Day, university closed
October 16	Reading week ends
October 17	Assignment 5 (Lesson 6) opens
Week 6: October 19 - October 25	
	Lesson 6: Modelling Random Events: The Normal and Binomial Models
October 23	Last day to submit required documentation to register with the Access Centre for Students with Disabilities and request exam accommodations for the fall 2026 final examination period
October 23	Assignment 5 due
October 24	Assignment 6 (Lesson 7) opens
Week 7: October 26 - November 1	
	Lesson 7: Survey Sampling and Statistical Inference
October 28	Midterm (Lessons 1-6, inclusively)
October 30	Assignment 6 due
October 31	Assignment 7 (Lesson 8) opens
Week 8: November 2 - November 8	

	Lesson 8: Hypothesis Testing for Population Proportions
November 06	Assignment 7 due
November 07	Assignment 8 (Lesson 9) opens
Week 9: November 9 - November 15	
	Lesson 9: Hypothesis Testing for Means
November 13	Assignment 8 due
November 14	Assignment 9 (Lesson 10) opens
Week 10: November 16 - November 22	
	Lesson 10: Relationships Between Categorical Variables
November 16	Deadline for academic withdrawal (DISC) from fall-term courses
November 20	Assignment 9 due
November 21	Assignment 10 (Lesson 11) opens
Week 11: November 23 - November 29	
	Lesson 11: Comparing Several Means: One-Way Analysis of Variance
November 27	Assignment 10 due
Week 12: November 30 - December 7	
November 30	Last day for instructor-scheduled tests or examinations
December 07	Last day of classes, fall term
Examinations Period: December 9 - December 22	
	Final Exam date and time is posted on your Student Hub