INTE 296/STAT 2096
Discover Statistics
Section EC
Fall 2025

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: inte296@econcordia.com

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 the eConcordia course website, and eConcordia Moodle. Important announcements, updates, and relevant files will be posted on eConcordia Moodle. The link to the eConcordia Moodle page can be accessed from the eConcordia dashboard under “MyLab/Term Updates”. **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 INTE 296 course 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 course website 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 from the course website for the duration of the term.

Office Hours

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 any questions they may have.

Assessments

Graded Assessments:

Quiz 1 (online) – Lesson 1 and 2	7.5%
Assignment 1 – Lessons 1, 2 and 3	5%
Quiz 2 (online) – Lessons 3, 4 and 5	7.5%
Assignment 2 – Lessons 4, 5 and 6	5%
Quiz 3 (online) – Lessons 6 and 7	7.5%
Assignment 3 – Lessons 7, 8 and 9	5%
Quiz 4 (online) – Lessons 8 and 9	7.5%
Quiz 5 (online) – Lessons 10 and 11	7.5%
Assignment 4 – Lessons 10 and 11	5%
Quizzes (best 4 of 5)	30%
Final Exam (in-person; will cover Lessons 1-11)	50%

Description of Graded Assessments

Assignments:

The assignments are based on the material learned through the examples, and practice questions. The students will have approximately 3 weeks to complete an assignment. The students must respect the due dates, as no extension to the deadline will normally be provided. 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.

Quizzes:

Each quiz will be comprised of a series of multiple-choice, true-false, and/or short-answer questions. Questions will be randomized and automatically generated from a pool of possible questions so that each student will have a “unique” assessment. The quiz opens at 12:01am on the scheduled day and closes at 11:59pm. Quiz 1 will cover the content from Lessons 1 and 2, Quiz 2 will be based on content from Lessons 3, 4 and 5, Quiz 3 will cover Lessons 6 and 7, Quiz 4 will cover Lessons 8 and 9, and Quiz 5 will cover Lessons 10 and 11.

You will NOT be able to redo a quiz if you encounter a computer or connection problem. There will be five (5) online quizzes. The best 4 of the 5 quiz results will be counted and there is no replacement quiz for missing (or not able to complete) a quiz, whatever the reasons are.

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.

Grades

In order to view your grades throughout the semester, click on the My Grades link in your eConcordia portal.

It is your responsibility to ensure your work has been received (to be verified as outlined in your assignment instructions) 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 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, quizzes and exams.
- Please note that you are responsible for the version of the work you upload to the website. If you upload the incorrect version of your work to the website, you can resubmit the correct version prior to the deadline. If you fail to meet the deadline, the version of your work located on the website is the one that will be graded.

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 2025

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

Week 1: September 1 - September 7	
	Review the Course Outline and Agenda
	Navigate the Course Website
	Lesson 1: Introduction to Data
	Orientation Test available
	Basic Math Review
September 01	**Labour Day, university closed**
September 02	**Classes begin**
September 02	**Discussion Board opens at 2 PM.**
Week 2: September 8 - September 14	
	Lesson 2: Visualizing Data
September 08	**Live (and recorded) Zoom Session:** Orientation session to the course. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
September 09	**Assignment 1 (Lessons 1, 2 and 3) opens**
September 12	**Orientation Test due**
Week 3: September 15 - September 21	
	Lesson 3: Numerical Summaries of Centre and Variation

	Orientation to StatCrunch https://www.youtube.com/watch?v=f-hMxX3FbiI&list=PLBE055F65E43B4973&index=2&t=0s
September 15	**Deadline to add fall-term courses**
September 15	**Deadline for withdrawal with tuition refund (DNE) from fall-term courses**
September 15	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
September 18	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 10:00am-11:00am Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
September 19	**Quiz 1 (Lessons 1 and 2)**
Week 4: September 22 - September 28	
	Lesson 4: Exploring Relationships Between Variables
September 22	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
Week 5: September 29 - October 5	
	Lesson 5: Probability: The Tool for Describing Variation
September 29	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
September 30	**Assignment 1 due**
September 30	**Assignment 2 (Lessons 4, 5 and 6) opens**

Week 6: October 6 - October 12	
	Lesson 6: Modelling Random Events: The Normal and Binomial Models
October 06	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
October 09	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 10:00am-11:00am Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
October 10	**Quiz 2 (Lessons 3, 4 and 5)**
October 11	**Reading week begins**
Mid-term break: October 13 - October 17	
October 13	**Thanksgiving Day, university closed**
October 17	**Reading week ends**
October 17	Last day to submit required documentation to register with the Access Centre for Students with Disabilities and request exam accommodations for the fall 2025 final examination period
Week 7: October 20 - October 26	
	Lesson 7: Survey Sampling and Statistical Inference
October 20	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
October 21	**Assignment 2 due**
October 21	**Assignment 3 (Lessons 7, 8 and 9) opens**
Week 8: October 27 - November 2	
	Lesson 8: Hypothesis Testing for Population Proportions
October 27	**Live (NOT recorded) Zoom Session:** Drop-in office hours.

	Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
October 30	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 10:00am-11:00am Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
October 31	**Quiz 3 (Lessons 6 and 7)**
Week 9: November 3 - November 9	
	Lesson 9: Hypothesis Testing for Means
November 03	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
Week 10: November 10 - November 16	
	Lesson 10: Relationships Between Categorical Variables
November 10	**Deadline for academic withdrawal (DISC) from fall-term courses**
November 10	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
November 11	**Assignment 3 due**
November 11	**Assignment 4 (Lessons 10 and 11) opens**
November 13	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 10:00am-11:00am Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"

November 14	**Quiz 4 (Lessons 8 and 9)**
Week 11: November 17 - November 23	
	Lesson 11: Comparing Several Means: One-Way Analysis of Variance
November 17	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
Week 12: November 24 - December 1	
November 24	**Last day for instructor-scheduled tests or examinations**
November 24	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 3:30pm-4:30pm Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
November 27	**Live (NOT recorded) Zoom Session:** Drop-in office hours. Time: 10:00am-11:00am Zoom link can be found on the course's *eConcordia* Moodle page in the "Term Updates" folder. The eConcordia Moodle page can be accessed through the eConcordia dashboard under "MyLab/Term Updates"
November 28	**Quiz 5 (Lessons 10 and 11)**
December 01	**Assignment 4 due (MONDAY)**
December 01	**Last day of classes, fall term**
Examinations Period: December 3 - December 18	
	Final Exam date and time is posted on your Student Hub