

Department of Statistical and Actuarial Sciences
SS2035 Statistics for Business and Social Sciences

Course outline for Summer Distance Studies 2021



Although this academic year might be different, Western University is committed to a **thriving campus**. We encourage you to check out the [Digital Student Experience](#) website to manage your academics and well-being. Additionally, the following link provides available resources to support students on and off campus: <https://www.uwo.ca/health/>.

Technical Requirements and Important Dates:



Stable internet connection



Laptop or computer



Working microphone



Working webcam



Classes Start	Reading Week	Classes End	Study day(s)	Exam Period
May 3	n/a	July 23		July 26 - 29

* May 31, 2021: Last day to drop a 6-week first-term half-course (0.5) without academic penalty.

1. Course Information

Course Information

Course Name: Statistics for Business and Social Sciences

Course Number: SS 2035

Term: Summer Distance Studies

Location: Online Delivery Asynchronous

Lecture hour: n/a

Tutorial: n/a

List of Prerequisite(s) One full course or equivalent from: Applied Mathematics 1201A/B, Applied Mathematics 1413, Statistical Sciences 1024A/B, Calculus 1000A/B or Calculus 1500A/B, Calculus 1301A/B or Calculus 1501A/B, Mathematics 1600A/B, Mathematics 1225A/B, Mathematics 1228A/B, Mathematics 1229A/B, Mathematics 1230A/B.

List of Antirequisite(s) All other courses or half courses in Introductory Statistics except Statistical Sciences 1023A/B and Statistical Sciences 1024A/B.

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

2. Instructor Information

Course Coordinator	Contact Information
TBD	



Instructor(s) or Teaching Assistant(s)	Contact Information
Kyle Leistner (Instructor)	kleistne@uwo.ca
Yuying Li	yli2982@uwo.ca
Duo Xu	dxu258@uwo.ca

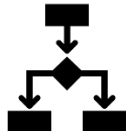
Office Hours	Zoom or MS Teams or in Person	Names
Friday 9:30 to 12:30	Zoom	Kyle Leistner

Students must use their Western (@uwo.ca) email addresses when contacting their instructors.

3. Course Syllabus, Schedule, and Delivery Mode

Descriptive statistics and graphs, probability and distributions. Sampling, hypothesis testing, and confidence intervals. Experimental design and analysis of variance. Regression and correlation, including multiple regression. Applications emphasized. This course cannot be taken for credit in any module in Data Science, Statistics, Actuarial Science, or Financial Modelling, other than the Minor in Applied Statistics.

Type	Mode	Dates	Time	Frequency
Lecture	Asynchronous online	n/a	n/a	n/a
Tutorial	n/a	n/a		



The course is broken down into 12 units in total. Students are responsible for moving through the material at a rate of 1 unit per week.

What is expected of the student/What student can expect of me

If you have questions about text exercises, the class notes, the video clips, or any other general questions about the course, you should use the discussion board on the OWL site.

You can post your questions for all students to see. I am expecting other students to respond to these questions. HOWEVER, I will check the web site every day and will respond to questions within 48 hours if no one else has responded. Be sure to check the course web site a few times every week.

If you prefer to be a bit more private, you can always email me your questions/comments using my Western email account (kleistne@uwo.ca)

Learning Outcomes

The course is designed to give some basic statistical tools to help you understand the concept of "data variability". These tools will allow you to analyze this variability so that you can draw conclusions from your data. The course will also give some insight into:

- What statistical methods and tests should be used in analyzing data
- How to use those methods and tests and where do they come from
- What are the underlying assumptions of your chosen statistical test and what happens if those assumptions are not correct



In addition to using statistical methods and tests to analyze data, the first one-third of the course will also discuss the concepts of probability and how probability can be used to model certain phenomena that occur in the sciences, social sciences and business world. The course will discuss different types of probability models (discrete and continuous) and show you how they can be used to predict future events.

Table of Contents and Schedule

Week	Dates	Chapter	Topic	Instructor
1	May 3-9	1 – Introduction 2 – Charts and Graphs 3 – Descriptive Statistics	Concepts (1.1); Variables (1.2); Big Data (1.3); Business Analytics (1.4); Data Mining and Visualization (1.5) Frequency Distributions (2.1); Quantitative Data Graphs (2.2); Qualitative Data Graphs (2.3); Graphs for 2 Variables (2.4); Visualizing Time-Series Data (2.5) Measures of Centre (3.1); Measures of Variability (3.2); Measures of Shape (3.3) [skip 3.4]	KL
2	May 10-16	4 – Probability	Introduction (4.1/4.2); Marginal, Union, Joint, and Conditional Probabilities (4.3); Probability Rules (4.4/4.5); Conditional Probability (4.6); Bayes Theorem (4.7)	KL
3	May 17-23	5 – Discrete Distributions	Introduction (5.1); Discrete Distributions (5.2); Special distributions: Binomial (5.3); Poisson (5.4); Hypergeometric (5.5)	KL
4	May 24-30	6 – Continuous Distributions	Uniform (6.1); Normal/Standard Normal (6.2); Using Normal to Approximate the Binomial (6.3); Exponential (6.4)	KL
5	May 31 - June 6	7 – Sampling and Sampling Distributions	Sampling methods (7.1); Distribution of the Sample Mean (7.2); Distribution of the Sample Proportion (7.3)	KL
6	June 7-13	8 – Statistical Inference: Estimation for	Confidence intervals for the mean: variance known (8.1) and variance unknown (8.2); Confidence Intervals for population proportion (8.3); Confidence Intervals for	KL



		single populations	the population variance (8.4); Estimating the sample size (8.5)	
7	June 14-18		Review for final exam	KL
8	June 21-27	9 – Statistical Inference: Hypothesis Testing for Single populations	Tests about the mean, variance known (9.2); Tests about the mean, variance unknown (9.3); Type I and II errors (9.1); Tests about a proportion (9.4); Tests about a variance (9.5); [skip section 9.6]	KL
9	June 28 - July 4	10 – Statistical Inferences about Two Populations	Comparing two means, variances known (10.1); Comparing two means, variance unknown – pooled and non-pooled (10.2); Paired data (10.3); Comparing two proportions (10.4); Tests about two population variances (10.5)	KL
10	July 5-11	11 – Analysis of Variance and Design of Experiments	Basic Concepts (11.1); One-way ANOVA (11.2); Multiple Comparison Tests (11.3); Randomized Block Design (11.4); [skip section 11.5]	
11	July 12-18	12 – Correlation and Simple Regression Analysis	Correlation Coefficient (12.1); Linear Regression model (12.2/12.3); Residual Analysis (12.4); Standard error and Coefficient of Determination (12.5/12.6); Hypothesis Testing of slope (12.7); Confidence and Prediction Intervals (12.8); Using Regression to Develop a Forecasting Trend Line (12.9)	KL
12	July 19-23	13 – Multiple Regression Analysis	The Model (13.1); Overall F-test/Testing Significance of each regression coefficient (13.2); Standard error/ R^2 /Adjusted R^2 (13.3); Interpreting computer output (13.4)	KL

4. Course Materials

Text Book

Business Statistics: For Contemporary Decision Making (3rd edition), Ken Black, Tiffany Bayley, Ignacio Castillo.

Students are required to purchase an e-book version through the following link:



https://bookstore.uwo.ca/textbook-search?campus=UWO&term=N2021&courses%5B0%5D=650_UW/STA2035

OWL Course webpage

This is an online course. Here is what you will find on the OWL course web site:

1. Weekly announcements and other things of interest related to the course
2. Class notes/helpful hints for each Unit
3. VIDEO clips made by the professor that will demonstrate how to solve various examples (these examples will be part of the Class Notes for each unit, but they will not have the solutions shown; instead the solutions will be shown on the video clips)
4. Suggested exercises for each chapter of the textbook
5. Solutions manual for the suggested exercises of the textbook
6. Copies of old exams, with solutions will be made available a week or two before the midterm and final. These old exams will give you a good idea of the type of questions that will be on the mid-term and final exams for this course
7. Formula sheets for the midterm and final exam
8. Your marks in the course
9. A link to the textbook "WileyPlus" web site

If students need assistance, they can seek support on the [OWL Help page](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

[Google Chrome](#) or [Mozilla Firefox](#) are the preferred browsers to optimally use OWL; update your browsers frequently. Students interested in evaluating their internet speed, please click [here](#).

5. Methods of Evaluation

The overall course grade will be calculated as listed below:

Adaptive Learning Question Sets (13 of them)	5%
On-line Quizzes (best 5 of 6)	15%
Mid Term Exam	40%
Final Exam	40%

You will need a pocket calculator for all on-line quizzes, midterm/final exams.

1. **Adaptive Learning Question Sets** – These are to be completed through the TEXTBOOK website (a link is provided on the course OWL page). There is one set for each of the first 13 chapters of the textbook.

What Are They?

- They are multiple choice questions taking from the material covered in each chapter of the textbook (and by extension, the course study material that I have posted for each chapter/section).
- They are available on the textbook website (thus, you need access to the textbook website)
- You need to attempt at least 30 questions from each chapter (you can attempt more if you want)

- As you attempt each question, you will be asked to choose how confident you are in your answer
- As you move to the next question, the system chooses the next question based on how well you are doing in the questions you have answered
- The first 20 questions for each chapter is to give the system a chance to see how well you are doing; You then have to answer at least 10 more questions (you can answer more than that if you want to keep going) before you finish a question set
- Your “final” mark on a question is based on a combination of things: how many questions you got correct, how confident you were in your answers to each question, and the difficulty level of each question
- If you do not have time to finish at least 30 questions for a chapter, you can stop and continue later. You do not have to finish all of the questions at one time. You just have to make sure you answer at least 30 questions (to your satisfaction) by the due dates given below.
- The goal of the Adaptive Learning Question Sets is to help keep you up to date with the material (so you do not fall behind) and to let you see what areas of a chapter you are understanding and what areas you may be having some trouble with and may need to brush up on – this should better prepare you for the online quizzes (which tend to be written AFTER the adaptive learning questions sets have been completed) and hopefully this will lead you to be better prepared for the midterm and final exams, and thus will be able to perform better on these exams.
- Marking Scheme for EACH question set:
 - If you successfully complete 20% to 39.9% of the questions, you get 5 out of 10
 - If you successfully complete 40% to 59.9% of the questions, you get 7.5 out of 10
 - If you successfully complete 60% or more of the assigned questions, you get 10 out of 10

By the way, saying “completing 60% of the questions” does not mean you just have to answer 60% of 30 = 18 questions. You still have to answer ALL 30 (or more) of the questions. It is the adaptive learning system that tells you how successful you have been. And you need to be 60% successful (or more) to get a 10 out of 10 on a question set.

Due Dates

Question set on Chapter 1 Question set on Chapter 2 Question set on Chapter 3	Sunday, May 9 by 11:45 pm
Question set on Chapter 4	Saturday , May 15 by 11:45 pm (there is a quiz on chapters 1, 2, 3, 4 this weekend)
Question set on Chapter 5	Sunday, May 23 by 11:45 pm
Question set on Chapter 6	Saturday , May 29 by 11:45 pm (there is a quiz on chapters 5 and 6 this weekend)
Question set on Chapter 7	Sunday, June 6 by 11:45 pm
Question set on Chapter 8	Saturday , June 12 by 11:45 pm (there is a quiz on chapters 7 and 8 this weekend)
Question set on Chapter 9	Sunday, June 27 by 11:45 pm
Question set on Chapter 10	Saturday , July 3 by 11:45 pm (there is a quiz on chapters 9 and 10 this weekend)

Question set on Chapter 11	Sunday, July 11 by 11:45 pm
Question set on Chapter 12	Saturday , July 17 by 11:45 pm (there is a quiz on chapters 11 and 12 this weekend)
Question set on Chapter 13	Friday, July 23 by 11:45 pm

If you are going to be away on a weekend, you should plan to complete studying the material AND completing the adaptive question sets before you go away. And if you are going away on a weekend that also has a quiz scheduled, you really need to be organized and make sure you complete everything before you go away (although, being an online course, as long as you have your computer with you, you can complete this work at any time, as long as you meet the deadlines)

2. **Web Tests (Online Quizzes)**

There will be 6 web-based tests. They will be written roughly every two weeks. They are designed to keep you from falling behind in the material. The best 5 out of the 6 tests will count.

You will be given a 72-hour window to write the test on-line. **The test will consist of 14 multiple-choice questions**, randomly selected from a bank of questions (No two tests will be the same). **You will get 75 minutes to write the test.** You will be able to write the test twice (although, the 2nd test will have completely different questions). Your final mark will be the **average** of the two tests. You may write a test only once if you want.

The online tests (quizzes) will be available on the **“WileyPlus” web site that is available using the access code that comes with the textbook.** As mentioned, the link to the “WileyPlus” site is available on the OWL course website

Test 1 – Units 1 and 2	Fri-Sun, May 14-16	Chapter 1, 2, 3, 4
Test 2 – Units 3 and 4	Fri-Sun, May 28-30	Chapter 5, 6
Test 3 – Units 5 and 6	Fri-Sun, June 11-13	Chapter 7, 8
Test 4 – Units 7 and 8	Fri-Sun, June 2-4	Chapter 9, 10
Test 5 – Units 9 and 10	Fri-Sun, July 16-18	Chapter 11, 12
Test 6 – Units 11 and 12	Wed-Fri, July 21-Jul 23	Chapter 13

3. **Mid Term Exam**

Saturday, June 19, 10 am to 1 pm (Eastern Daylight Time)

This will be a three-hour, closed-book exam covering chapters 1 to 8 of the textbook (Units 1 to 6). It will be a multiple-choice exam (non-linear) with the exam available on the course OWL site. You will be given a **page of relevant formulas** with the exam (which will be made available on OWL prior to the exam for you to look at).

ALL students MUST write the exam at this time. For example, if you live in Beijing, China, then the exam will take place from 10 pm to 1 am. If you live in Vancouver, BC, then the exam will take place from 7 am to 10 am.

****If you are NOT able or willing to write the midterm exam during these three hours, then PLEASE do not take this course****

4. **Final Exam**

To be announced (Sometime during the week of July 26-29 – to be confirmed).

This will be a three-hour, closed exam covering chapters 9 to 13, 14.2, 16.1, 16.2 of the textbook (Units 7 to 12). It will be a multiple-choice exam (non-linear) with the exam available on the course OWL site. You will be given a page of relevant formulas with the exam (which will be made available on OWL prior to the exam for you to look at).

ALL students MUST write the exam at whatever time the exam is set for, taking into account the time zone that they live in. The time of the exam will be set based on Eastern Daylight Time.

Suggested Weekly Timetable (all TIMES are Eastern Daylight Time)

Week	Chapter	Sections
1. May 3, 4 May 5, 6 May 7, 8, 9	Chapter 1 – Intro and types of data Chapter 2 -- Graphs Chapter 3 – Descriptive Statistics	1, 2, 3, 4, 5 1, 2, 3, 4, 5 1, 2, 3
Adaptive Learning problem set for Chapter 1, for Chapter 2, for Chapter 3 – must complete all three by Sunday, May 9 at 11:45 pm		
2. May 10 to 16	Chapter 4 - Probability	1, 2, 3, 4, 5, 6, 7
Adaptive Learning problem set for Chapter 4 – due by Saturday, May 15 at 11:45 pm Online Quiz 1 – Friday to Sunday, May 14-16 (chapters 1, 2, 3, 4)		
3. May 17 to 23	Chapter 5 – Discrete Distributions	1, 2, 3, 4, 5
Adaptive Learning problem set for Chapter 5 – due by Sunday, May 23 at 11:45 pm		
4. May 24 to 30	Chapter 6 – Continuous Distributions	1, 2, 3, 4
Adaptive Learning problem set for Chapter 6 – due by Saturday, May 29 at 11:45 pm Online Quiz 2 – Friday to Sunday, May 28-30 (chapters 5, 6)		
5. May 31 to June 6	Chapter 7 – Sampling Distributions	1, 2, 3
Adaptive Learning problem set for Chapter 7 – due by Sunday, June 6 at 11:45 pm		
6. June 7 to 13	Chapter 8 – Confidence Intervals	1, 2, 3, 4, 5
Adaptive Learning problem set for Chapter 8 – due by Saturday, June 12 at 11:45 pm Online Quiz 3 – Friday to Sunday, June 11-13 (chapters 7, 8)		
7. June 14 to 18	REVIEW chapters 1 to 8 + practice exams	
Mid Term Exam – Saturday, June 19 – 10:00 am to 1:00 pm		
8. June 21 to 27	Chapter 9 – Hypothesis Testing	1, 2, 3, 4, 5 (not 6)
Adaptive Learning problem set for Chapter 9 – due by Sunday, June 27 at 11:45 pm		
9. June 28 to July 4	Chapter 10 – Comparing Two Populations	1, 2, 3, 4, 5
Adaptive Learning problem set for Chapter 10 – due by Saturday, July 3 at 11:45 pm Online Quiz 4 – Friday to Sunday, July 2-4 (chapters 9, 10)		
10. July 5 to 11	Chapter 11 – Analysis of Variance	1, 2, 3, 4 (not 5)
Adaptive Learning problem set for Chapter 11 – due by Sunday, July 11 at 11:45 pm		
11. July 12 to 18	Chapter 12 – Regression and Correlation	1, 2, 3, 4, 5, 6, 7, 8, 9

Adaptive Learning problem set for Chapter 12 - due by Saturday, July 17 at 11:45 pm		
Online Quiz 5 - Friday to Sunday, July 16-18 (chapters 11, 12)		
12. July 19-23	Chapter 13 - Multiple Regression	1, 2, 3, 4 (not 5)
Adaptive Learning problem set for Chapter 13 - due by Friday, July 23 at 11:45 pm		
Online Quiz 6 - Wednesday to Friday, July 21-Jul 23 (chapter 13)		
REVIEW - Chapters 9, 10, 11, 12, 13 (July 24 -25)		
Final Exam - To Be Announced (Either July 26, 27, 28, or 29)		

Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading.

Accommodated Evaluations

- The weight of a missed test/quiz/adaptive learning will be transferred to the final exam
- If a make-up assessment is missed, the student will receive an INC and complete the task the next time the course is offered

Rounding of Marks Statement

Across the Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark “bumping” will be denied.

6. Accommodation and Accessibility

Accommodation Policies

Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The Academic Accommodation for Students with Disabilities policy can be found at:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Accommodation_disabilities.pdf

Academic Consideration for Student Absence

Students will have up to two (2) opportunities during the regular academic year to use an on-line portal to self-report an absence during the semester, provided the following conditions are met: the absence is no more than 48 hours in duration, and the assessment for which consideration is being sought is worth 30% or less of the student’s final grade. Students are expected to contact their instructors within 24 hours of the end of the period of the self-reported absence, unless noted on the syllabus. Students are not able to use the self-reporting option in the following circumstances:

- for exams scheduled by the Office of the Registrar (e.g., December and April exams)
- absence of a duration greater than 48 hours,
- assessments worth more than 30% of the student's final grade,
- if a student has already used the self-reporting portal twice during the academic year

If the conditions for a Self-Reported Absence are *not* met, students will need to provide a Student Medical Certificate if the absence is medical, or provide appropriate documentation if there are compassionate grounds for the absence in question. Students are encouraged to contact their Faculty academic counselling office to obtain more information about the relevant documentation.

Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**

For policy on Academic Consideration for Student Absences - Undergraduate Students in First Entry Programs, see:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.pdf

and for the Student Medical Certificate (SMC), see:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

Religious Accommodation

Students should consult the University's list of recognized religious holidays, and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if their course requirements will be affected by a religious observance. Additional information is given in the Western Multicultural Calendar:

<https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see http://www.registrar.uwo.ca/examinations/exam_schedule.html).

7. Academic Policies

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, <http://www.uwo.ca/its/identity/activatenonstudent.html>, the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

Contingency plan for an in-person class pivoting to 100% online learning

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be

delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.

All of the remote learning sessions for this course will be recorded.

The data captured during these recordings may include your image, voice recordings, chat logs and personal identifiers (name displayed on the screen). The recordings will be used for educational purposes related to this course, including evaluations. The recordings may be disclosed to other individuals participating in the course for their private or group study purposes. Please contact the instructor if you have any concerns related to session recordings.

Participants in this course are not permitted to record the sessions, except where recording is an approved accommodation, or the participant has the prior written permission of the instructor.

The use of cell phones is permitted during the upload period of the test in order to upload answers to Gradescope. During the testing period, cell phones are not permitted.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Tests and examinations in this course will be conducted using both Zoom and the remote proctoring service, such as Proctortrack.

When Zoom is used for exam invigilation, you will be required to keep your camera on for the entire session, hold up your student card for identification purposes, and share your screen with the invigilator if asked to do so at any time during the exam. The exam session using Zoom will not be recorded.*

Proctortrack will require you to provide personal information (including some biometric data). The session will be recorded. By taking this course, you are consenting to the use of this software.

More information about remote proctoring is available in the Online Proctoring Guidelines at the following link:

<https://www.uwo.ca/univsec/pdf/onlineproctorguidelines.pdf>

Completion of this course will require you to have a reliable internet connection and a device that meets the system and technical requirements for both Zoom and Proctortrack. Information about the system and technical requirements are available at the following links:

<https://www.proctortrack.com/tech-requirements/>

<https://support.zoom.us/hc/en-us>

* Please note that Zoom servers are located outside Canada. If you would prefer to use only your first name or a nickname to login to Zoom, please provide this information to the instructor in advance of the test or examination.

Professionalism & Privacy

Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:



- Students are expected to follow online etiquette expectations provided on OWL
- All course materials created by the instructor(s) are copyrighted and cannot be sold/shared
- Recordings are not permitted (audio or video) without explicit permission
- Permitted recordings are not to be distributed
- Students will be expected to take an academic integrity pledge before some assessments
- All recorded sessions will remain within the course site or unlisted if streamed

Copyright Statement

Please be aware that all course materials created by the instructor(s) are copyrighted and cannot be **sold/shared**. Those include materials used in tests/quizzes, midterms, and finals. Any posting/sharing of such materials in part or whole without owner's consent is considered as violation of the Copyright Act and will be considered as a scholastic offence.

In addition, online services such as Chegg are actively monitored. Any questions that are coming out during midterms and finals and are posted to an online service will be searched. Such an activity will be considered as a scholastic offence and will result in academic penalty.

8. Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on add/drop courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Student Accessibility Services (SAS) at (519) 661-2147 if you have any questions regarding accommodations.

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital/>.

Learning-skills counsellors at the Student Development Centre (<http://www.sdc.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.