

The University of Western Ontario  
 Department of Statistical and Actuarial Sciences  
**STATISTICAL SCIENCE 2035 2020-21**

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:**

Stable internet connection

Laptop or computer

Working microphone

Working webcam

Instructor	Sec	Day/Time	Location	email	Office/Phone (519-661-2111)
Mr. Joe Raaymakers	001		Online	jraaymak@uwo.ca	WSC 107
Mr. Steve Kopp	002	MWF 1:30-2:30	Synchronous Online	kopp@stats.uwo.ca	WSC 284 x86288

**Prerequisite(s):**

You need one full course in first year University level math. Such as: [Applied Mathematics 1413](#), [Statistical Sciences 1024A/B](#), [Calculus 1000A/B or 1100A/B](#), [Calculus 1301A/B or 1501A/B](#), [Mathematics 1600A/B](#) or the former Linear Algebra 1600A/B, [Mathematics 1225A/B](#), [1228A/B](#), [1229A/B](#),

**Anti-requisite**

**Textbook Website**

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## What You Will Be Marked On

1. **Assignments** – There will be FOUR written answer assignments. They will consist of several questions from the previous week’s lectures. Some questions may require some graphing where you can use Excel (or some other software) to help you create the graphs. Most of the other questions will require some calculations and some ability to state conclusions and interpret your results. Due dates (times are given as Eastern Daylight Time):

Assignment 1	Wednesday, October 28 (8:00 pm)
Assignment 2	Wednesday, December 9 (8:00 pm)
Assignment 3	Wednesday, February 10 (8:00 pm)
Assignment 4	Wednesday, April 7 (8:00 pm)

**The assignments will be available on the course OWL site.**

**However, you will not submit your solutions to OWL. Instead we will be using GRADESCOPE for you to submit your assignments.** (I will send out information about how to upload your solutions to Gradescope through an announcement on OWL as we get closer to the date an assignment is due).

**Assignments can be written out by hand or typed up. If your solutions are hand written, you must make a pdf version of your solutions (including any graphs created by**

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	Available until Sun, Sept 27 (10:00 pm)
Question set on Chapter 2	Available until Sun, Sept 27 (10:00 pm)
Question set on Chapter 3	<b>Available until Sat, Oct 10</b> (10:00 pm)
Question set on Chapter 4	Available until Sun, Oct 25 (10:00 pm)
Question set on Chapter 5	Available until Sun, Nov 15 (10:00 pm)
Question set on Chapter 6	Available until Sun, Dec 6 (10:00 pm)
Question set on Chapter 7	Available until Sun, Dec 6 (10:00 pm)
<b>2021</b>	
Question set on Chapter 8	Available until Sun, Jan 24 (10:00 pm)
Question set on Chapter 9	Available until Sun, Feb 7 (10:00 pm)
Question set on Chapter 10	Available until Sun, Mar 7 (10:00 pm)
Question set on Chapter 11	Available until Sun, Mar 21 (10:00 pm)
Question set on Chapter 12	Available until Sun, Apr 4 (10:00 pm)
Question set on Chapter 13	Available until Sun, Apr 11 (10:00 pm)

**NOTE: It is best if you complete the question set for a chapter BEFORE you attempt the online quiz for that chapter (although, as you can see, I have made the due dates the same**



## 5. **Final Exam**

To be announced (scheduled for the final exam period in April, 2021).

This will be a 2.5-hour exam covering chapters 10 to 13, 14.2, 16.1, 16.2 of the textbook. It will be a multiple-choice exam 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.

<b>You will need a pocket calculator for all on-line quizzes, midterm/final exams.</b>
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### **For the midterms and final exam, it is expected that:**

An online proctoring system will be used (such as ProctorTrack)

We plan to make the exams available using OWL

We hope to give the exam synchronously to all students at the exact same time; if that is not possible (due to capability issues with OWL), we plan to make the exam available over a 6-hour window, so that students can start it at any time within the 6-hour window; once a student begins the exam, they will have exactly 3 hours to complete it

For midterm 1 and midterm 2, it will be open-book. You are encouraged to make use of lecture slides and the text when writing the exam. However, you must work independently. Before you begin each test, you will agree to an Honour Statement. I will be conducting response and cheating analysis after each quiz. Please honour the Honour Statement.

### **Policy on tests and examinations**

Tests and examinations in this course may be conducted using the remote proctoring service, **Proctortrack**. By taking this course, you are consenting to the use of this software and



### **Rounding of Marks**

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.

### **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](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 cont?

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### **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](http://www.registrar.uwo.ca/examinations/exam_schedule.html)).

### **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.

**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](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

Computer-marked multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

### **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.

**Support Services**

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-