

The University of Western Ontario
 Department of Statistical and Actuarial Sciences

APPLIED MATHEMATICS 1413

Instructor	Section	Days	Location	Email	Office
1 st : Mr. Wenqing He 2 nd :	001	MWF 9:30-10:30	WSC 55	whe@stats.uwo.ca	WSC 213, x86982
Mr. Steve Kopp	002	MWF 1:30-2:30	1 st term: SSC 2050 2 nd term: MC 110	kopp@stats.uwo.ca	WSC 284 x86288
Mr. Javad Rastegari	570	T - 5:00-6:30 Th- 5:00-6:30	LH 100 (Kings) W166 (Kings)		

Prerequisites

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 [15010 01 335.28 559.32 Tm \[\(,\)-3.5012\(\)250](#)

_____ (This means that you can take Stats 2035 if you took Stats 1024A/B in a prior year, BUT you cannot take Stats 2035 and 1024A/B at the SAME time)

Textbook

“Business Statistics for Contemporary Decision Making” (2nd Canadian edition) by Black, Chakrapani, Castillo (Wiley)

- Binder ready, 3-hole punched, shrink-wrapped = \$111.15 (includes access to Wiley Plus)
- Wiley Plus access only with e-book = \$85

Textbook Access

The 2nd edition of the textbook comes with an access code that gives you access to a companion website. Although access to this website is NOT a requirement for the course (nor will there be any marks allocated to anything you do on this website), you are encouraged to visit the website as it will be set up to provide you with practice problems/quizzes to help test your knowledge of material presented in class. It will also contain an e-book version of the text for quick reference, solutions manual and other visual aids (such as videos, office hour videos, applets, demonstration problems, animations and learning activities) to help in your understanding of the material.

Course Objectives

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.

M d e (2.5 hour exams)

1. Exam 1: d y,

Help Centre

The help centre is a “drop in” centre and is located in Middlesex College (room number and hours will be posted on OWL once they are known). It will be staffed by TA’s from the Statistics department. It is usually open from 10:00 to 4:00, Monday to Friday (starting 3rd week of September). This is an excellent resource for one-on-one help.

Course Outline

The web page will contain various things throughout the year:

1. A copy of this course outline
2. Copies of tests and exams from the previous year (with solutions)
3. Solutions to the exercises in the 2nd edition of the textbook (as pdf files)
4. Weekly updates and information

Attendance

The department of Statistical and Actuarial Sciences views classroom attendance as a very important part of the learning process. You are expected to attend all classes. You are advised that excessive absenteeism may result in being debarred from the final examination.

Communication

E-mail can be an efficient and effective way to communicate with your Professor, but it should be used very rarely, only to provide us with information or to ask a question that requires a very brief response. We do not wish to see emails that ask "What did I miss in class today?". For more lengthy discussions, you should raise questions after class or during office hours, or make a separate appointment if necessary. Please remember that we will only read e-mails from your UWO student account. E-mails from other accounts (e.g. hotmail, yahoo, etc.) will not be read.

Second copy of report on your course work

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Learning-skills counsellors at the Student Development Centre 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: <http://www.sdc.uwo.ca>

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

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

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

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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

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