KING'S UNIVERSITY COLLEGE
LONDON   CANADA
SCHOOL OF MANAGEMENT, ECONOMICS, AND MATHEMATICS

<u>Mathematics 1230B Section 572</u>
<u>Calculus for the Social Sciences</u>

January - April 2020

INSTRUCTOR   *Dr. Zinovi Krougly*
Email: zkrougly@uwo.ca
Office: DL 239

Times: M W 6:30 PM - 8:30 PM in SA 150
Office Hours: M W 8:30 PM - 9:30 PM in DL 239, or by appointment

TEXTBOOK:
Custom package (text and student solutions manual).
Methods of Calculus: University of Western Ontario (ISBN-13: 978-0-17-684216-1)

PREREQUISITES:
MCV4U or equivalent (High School Calculus), or Mathematics 0110A/B. Note: students who have not also taken a grade 11 and/or grade 12 course in university-preparation functions may be missing some background in trigonometry and possibly other topics. It is the responsibility of the student to seek assistance on such topics in a timely manner.

ANTIREQUISITES:
Applied Math 1201A/B, 1413, Calculus 1000A/B, 1500A/B, 1301A/B, 1501A/B, Mathematics 1225B.

COURSE OUTLINE:
Review of differential calculus with transcendental functions; methods of integration; constrained and unconstrained multivariable optimization, with applications; mathematical modelling with differential equations, including applications in management, finance, economics, and social science.

EVALUATION OF STUDENT PERFORMANCE:

Students will be assessed based on:

- Quiz 1 (5%) on Friday, January 31 from 5:00 –5:30 PM
- Test 1 (25%) on Friday, February 7 from 5:00 –6:30 PM
- Quiz 2 (5%) on Friday, March 6 from 5:00 –5:30 PM
- Test 2 (25%) on Friday, March 13 from 5:00 –6:30 PM
- Final Exam (40%) held during the April Examination Period (3 hours)

Locations of the tests and quizzes will be announced in class and/or on the course web site.

The Final Exam will be 3 hours in length, covering all the course material, and will be scheduled by the Registrar's Office during the April Exam Period.

Test and exam format:

- Done outside of class time
- No calculators
- Closed book

Quizzes:

- Done outside of class time
- No calculators
- Students can bring one 8.5x11 page (both sides) of hand-written notes to quiz 1 and quiz 2

COURSE WEB SITE:

Various supplemental materials may be posted on the course OWL web site. In addition, there are forums on which students may post questions. Important information will be posted on the NEWS forum and/or n the class page on the web site. All students are expected to be aware of information, and make use of materials, posted on the course web site.

Please contact your course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x82147 for any specific question regarding an accommodation.

Notes:

1. The Tests and Examination will all have some multiple-choice questions and written answer questions.

2. NO printed or written aids (formula sheets, textbooks, notes, etc) may be used on any test or exam. Any student found using such an aid will receive a grade of zero on that assessment, plus any additional penalties applied by the Dean's Office.

3. NO calculators or other electronic devices are allowed on quizzes, tests and exams. Use of any electronic communication device during a quiz, test or exam will result in an automatic grade of zero on that assessment, plus any additional penalties applied by the Dean's Office. Students are expected to turn off their phones and other electronic devices during quizzes, tests, and exams.

4. See Absence / Missed Work policy on the last page of the course outline.

5. Your mark in the course will be the mark that you earn based on your demonstrated understanding of the course content, assessed using the criteria outlined above. Extra credit assignments are not available, and tests and exams cannot be rewritten to obtain a higher mark. There are no exceptions for any reason.

6. Any email sent to an instructor MUST say **Math 1230B (section 572)** in the subject line, where X is the number corresponding to your section. The email must also be sent from your UWO email account. Any email without this, and/or any email sent from a non-UWO email address, could be blocked by a spam filter or otherwise be deleted unread.