

Brief Course Outline

Course Title: **Methods of Calculus**

Course Number and Section

MATH

1225A 550

Instructor Name(s): Mohsen Mollahajiaghaei

Instructor Email(s): mmollaha@uwo.ca

Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL Brightspace is the official and authoritative source of information for the course.

Course Description:

Logarithmic, exponential and trigonometric functions; integration, applications of integration (area); techniques of integration, improper integrals; functions of several variables, Second Partial Test, Lagrange Multipliers; differential equations

Learning Outcomes: one outcome per entry

Review of differential calculus with transcendental functions;
methods of integration
constrained and unconstrained multivariable optimization
Mathematical modelling with differential equations

Textbooks and Course Materials:

Custom Text for Mathematics 0110A/B, 1225A/B and 1230A/B

OPTION 1: print text with homework solutions book (any edition, used or new)

OPTION 2: e-Book with homework solutions e-book (any edition)

Methods of Evaluation: one assignment per entry

Assignment	Due Date mm/dd/yy	Weight - %
Online quizzes (Biweekly)		10
Test 1		20
Test 2		20
Final exam		40
Best test 1, test 2 and final exam		10

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In-course Costs

\$070.00

For Textbooks and Course Materials (below), you are required to include the cost of each textbook or other learning material.

Note whether there are any restrictions that would prevent a student from using a second-hand copy. Here is some suggested text:

- Required textbook: [author, title, edition, publisher, date]. Cost: [insert amount].
 - Or include the weblink of the textbook's publisher site that includes the cost information.
- Students need to purchase this edition. Second-hand or older editions will not be sufficient.
- OR Students are welcome to purchase second-hand or earlier editions of this textbook.
- This course has an optional field trip that costs [insert amount].
- This course has a required field component that costs [insert amount].

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.