

## Brief Course Outline

**Course Title:** **Methods of Calculus**

**Course Number and Section:**

MATH

1225B 551

**Instructor Name(s):** Mohsen Mollahajighaei

**Instructor Email(s):** mmollaha@uwo.ca

Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL 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:

Review of differential calculus with transcendental functions;
methods of integration
constrained and unconstrained multivariable optimization
athematical 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:

Assignment	Due Date mm/dd/yy	Weight - %
Online quizzes	Weekly	10
Final exam	April TBD	40
Best test 1, test 2 and final exam	TBD	10
Test 1	2/8/2024	20
Test 2	3/14/2024	20

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

Tuesday, December 12, 2023