

Brief Course Outline

Course Title: **Methods of Calculus**

Course Number and Section

MATH

1225A 550

Instructor Name(s): Mohsen Mollahajiaghahi

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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
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: one assignment per entry

Assignment	Due Date mm/dd/yy	Weight - %
Quiz 1		4
Quiz 2		4
Quiz 3		4
Quiz 4		4
Quiz 5		4
Midterm		35

Assignment	Due Date mm/dd/yy	Weight - %
Final exam		45

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

Tuesday, May 12, 2026

Huron Brief Course Outline

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].