

MATH_V 121 201 – Honours Integral Calculus

Winter Session 2 (2025W2)

University of British Columbia, Vancouver

General Information

Term dates: January 5 – April 10, 2026

Midterm break: February 16–20, 2026

Final exam period: April 14–25, 2026 (students must be in Vancouver)

Instructor: Alexia Yavicoli

Email: yavicoli@math.ubc.ca

Lectures:

Monday, Tuesday, Wednesday, Friday, 2:00–3:00 PM

UBC Vancouver Campus, Chemistry Building (CHEM), Floor -1, Room C124

Attendance is not mandatory, but it is strongly recommended.

Online Instruction

Due to a conference in China, lectures during the week **February 2–6** will be held on Zoom.

Zoom link:

<https://ubc.zoom.us/j/61527408364?pwd=DnLzhhb0tJ7xydq98BYxDm6Nua0cZC.1>

Meeting ID: 615 2740 8364

Passcode: 54321

In case of any event preventing in-person lectures, Zoom will be used.

Course Description and Topics

This course is an honours-level introduction to integral calculus, emphasizing both computational techniques and rigorous reasoning.

Topics include:

- Definite integrals and the Fundamental Theorem of Calculus
- Techniques of integration
- Applications of integration
- Infinite series

Course Materials

Primary textbook:

- *CLP-2: Integral Calculus*

Additional references:

- Apex Calculus
- Apostol, *Calculus*
- Spivak, *Calculus*
- Katz, *Calculus*
- Hammack, *Book of Proof* (logic and proof techniques)

Lecture notes will be available on Canvas under **Files > Lectures**.

iClicker

We will occasionally use iClicker Cloud during lectures. Responses are anonymous and do not affect grades.

Join using the Canvas tab or the following link (passcode 54321):
<https://join.iclicker.com/FUXT>

Support and Communication

Piazza:

Piazza is the primary forum for questions and discussion. Students must sign up using their real names (anonymous posting to classmates is allowed).

https://piazza.com/ubc.ca/winterterm22026/math_v1212012025w2

Problem-solving sessions (TA: Hein Thant):

Fridays, 3:00–5:00 PM, MATX 1102 (starting January 9)

Office hours (Alexia):

Mondays, 3:00–5:00 PM, MATX 1102 (starting January 12)

Mathematics Learning Centre (MLC):

Room MATH 102, Monday–Friday, 12:00–5:00 PM

Online MLC: Monday–Friday, 5:00–7:00 PM

<https://www.math.ubc.ca/~MLC>

Assessment and Grading

Homework Assignments (30%):

- Approximately every two weeks
- Due Fridays at 11:59 PM (excluding midterm break)
- No late submissions accepted
- Lowest homework score is dropped
- Solutions must be typed (Overleaf strongly recommended)

Academic Concessions

The lowest score among all Homework assignments will be automatically dropped as an academic concession. This policy is intended to accommodate small or short-term circumstances such as minor illness, personal or emotional difficulties, or other unexpected but limited disruptions.

For more serious situations (for example, long-term or severe illness, hospitalization, or other significant circumstances), students should contact the University through their Faculty advising office and notify the instructor by email as soon as possible. Such cases are handled according to UBC's policies on academic concessions and deferred standing.

Final Exam (70%):

- In-person, 2.5 hours
- Covers the entire course
- Closed book, no calculators
- One letter-size (8.5×11 inch) handwritten notes sheet permitted

There are **no midterm exams** in MATH 121.

Academic Integrity and Policies

Students are expected to follow UBC policies on academic integrity. Suspected misconduct will be pursued fully and may result in serious academic consequences.

Students requiring accommodations must register with the Centre for Accessibility (CfA).

For registration issues, contact Math Undergraduate Advising:

<https://www.math.ubc.ca/undergraduate/advising-and-resources>

Classroom Conduct and Best Practices

- Questions and typo corrections during lectures are welcome
- Be respectful, inclusive, and considerate of others
- Whisper if you need to speak briefly during lectures
- Enter or leave quietly if necessary
- Stay home if you are ill; lecture notes will be posted

You may address the instructor as “Alexia” or in any respectful manner.