

MATH 2007A - Elementary Calculus II Fall 2021

Instructor Dr. S. Melkonian (4279 HP, 520-2600 ext. 2126)

E-mail melkonia@math.carleton.ca

Office Hours Online, by appointment

Textbook Single Variable Calculus: Early Transcendentals, 9th edition, by James Stewart, Daniel Clegg, Saleem Watson, CENGAGE
<https://www.cengage.ca/c/single-variable-calculus-early-transcendentals-44-9th-edition-9e-stewart-clegg-watson/9780357022269/>
10% discount code DIGITALB2S1860 valid until October 31, 2021

Lectures Asynchronous, recorded and posted on Brightspace, beginning Wednesday, September 8.

Tutorials Synchronous (live), Section A1 in person and sections AW online, Monday 5:35 PM – 6:25 PM, beginning September 20.

Tests There will be five tests online, 5:30 PM – 6:30 PM, for all sections (A1 and AW), on the following dates:

Test 1: Monday, September 27

Test 2: Monday, October 18

Test 3: Monday, November 8

Test 4: Monday, November 22

Test 5: Monday, December 6

Marking Scheme

Each test will count for 10% and the final examination for 50% of the final grade. A minimum grade of 25% on the term (5 tests) and 25% on the final examination is required in order to pass the course.

Topics

Indeterminate Forms and L'Hôpital's rule (Section 4.4)

The Substitution Rule (Section 5.5)

Integration by Parts (Section 7.1)

Trigonometric Integrals (Section 7.2)

Trigonometric Substitution (Section 7.3)

Integration of Rational Functions by Partial Fractions (Section 7.4)

Improper Integrals (Section 7.8)

Curves Defined by Parametric Equations (Section 10.1)

Calculus with Parametric Curves (Section 10.2)

Polar Coordinates (Section 10.3)
Calculus in Polar Coordinates (Section 10.4)
Sequences (Section 11.1)
Series (Section 11.2)
The Integral Test and Estimates of Sums (Section 11.3)
The Comparison Tests (Section 11.4)
Alternating Series and Absolute Convergence (Section 11.5)
The Ratio and Root Tests (Section 11.6)
Power Series (Section 11.8)
Representations of Functions as Power Series (Section 11.9)
Taylor and Maclaurin Series (Section 11.10)

Academic Integrity

See the [Academic Integrity](#) policies at Carleton University.

Academic Accommodation

Pregnancy or religious obligation

Contact me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf>.

Academic accommodations for students with disabilities

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. PMC website: <https://carleton.ca/pmc>.

COVID-19 Protocol

All members of the Carleton community are required to follow COVID-19 prevention measures and all mandatory public health requirements (e.g. wearing a mask, physical distancing, hand hygiene, respiratory and cough etiquette) and [mandatory self-screening](#) prior to coming to campus daily.

If you feel ill or exhibit COVID-19 symptoms while on campus or in class, please leave campus immediately, self-isolate, and complete the [mandatory symptom reporting tool](#). For purposes of contact tracing, attendance will be taken in all classes and labs. Participants can check in using posted QR codes through the cuScreen platform where provided. Students who do not have a smartphone will be required to complete a paper process as indicated on the [COVID-19 website](#).

All members of the Carleton community are required to follow guidelines regarding safe movement and seating on campus (e.g. directional arrows, designated entrances and exits,

designated seats that maintain physical distancing). In order to avoid congestion, allow all previous occupants to fully vacate a classroom before entering. No food or drinks are permitted in any classrooms or labs.

For the most recent information about Carleton's COVID-19 response and required measures, please see the University's [COVID-19 webpage](#) and review the [Frequently Asked Questions \(FAQs\)](#). Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

Please note that failure to comply with University policies and mandatory public health requirements, and endangering the safety of others are considered misconduct under the Student Rights and Responsibilities Policy. Failure to comply with Carleton's COVID-19 procedures may lead to supplementary action involving Campus Safety and/or Student Affairs.

Last modified: August 26, 2021, 12:00 PM.