

MATH 2007A - Elementary Calculus II Fall 2020

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

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Office Hours Online, by appointment

Textbook Single Variable Calculus: Early Transcendentals, 9th edition, by James Stewart, Daniel Clegg, Saleem Watson, CENGAGE

Lectures Posted online, beginning Wednesday, September 9

Tutorials Online, Tuesdays 3:35 - 4:25, beginning September 22

Tests There will be five tests, held during the tutorial periods, on the following dates:

Test 1: Tuesday, September 29

Test 2: Tuesday, October 13

Test 3: Tuesday, November 3

Test 4: Tuesday, November 17

Test 5: Tuesday, December 1

Marking Scheme

The best four tests will count for 60% and the final examination for 40% of the final grade.

There will be no make-up tests.

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 Accommodation

Pregnancy 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>.

Religious obligation

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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>.

Last modified: August 25, 2020, 1:00 PM.