MATH 2007 B - Elementary Calculus II
Fall 2019

Instructor    Dr. Moussa Larbani (4220 HP, 613-520-2600 ext.4225)

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Office Hours  Monday 4:45 – 5:45 PM and Wednesday 14:45 – 5:45 PM or by appointment.


Prerequisites MATH1004 or a grade of C- or higher in MATH1007; or permission of the school.

Lectures    Monday and Wednesday 6:05 PM - 7:25 PM, location: TB 208, beginning Wednesday, September 4.

Tutorials are scheduled on Wednesday 21:05 – 22:55, beginning Wednesday, September 11.

Teaching Assistants

<table>
<thead>
<tr>
<th>Section</th>
<th>TA’s Name</th>
<th>TA’s e-mail</th>
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</thead>
<tbody>
<tr>
<td>MATH2007 B1</td>
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Term Mark  There will be four 50-minute tests administered during tutorials on the following dates:

Test 1: Wednesday, October 2
Test 2: Wednesday, October 16
Test 3: Wednesday, November 6
Test 4: Wednesday, November 20

No makeup, early or delayed tests will be given.

Evaluation:  Your final grade will be calculated as:

Term Mark 45 % (best 3 out of 4 tests) + Final Examination 55%

Final exam: The final exam is a cumulative three hours closed book exam scheduled by the university. The exam period runs from December 9th to December 21st (including Saturdays). It is student's responsibility to be available at the time of the examination. No travel plans should be made until the examination schedule is published. It is the student’s responsibility to find out the correct date and time of the exam and the room where it takes place. Students who missed the
final examination may be eligible for a deferred exam provided that they present a doctor note or another supporting document to the Registrar’s Office. It is the Registrar’s Office and not the instructor which take decision of granting a deferred examination. After the exam is written, students may see their final examination papers. This examination review is for educational purpose only and NOT for negotiation of the grade.

**Calculators:** Only non-programmable and non-graphical calculators are allowed for tests and the final exam. I reserve the right to confiscate any calculator during a test or a final exam.

**Practice problems lists.** Practice problems lists will regularly be posted on cuLearn. These problems are not to be handed in and will not be graded. However, in order to succeed in the course, it is essential to practice on a regular basis.

**Withdrawal:** The last day for academic withdrawal is December 6th.

**Students with Disabilities:** Students with disabilities who require academic accommodations in this course are encouraged to contact the Paul Menton Centre ([PMC website](#)) for Students with Disabilities to complete the necessary Letters of Accommodation. After registering with the PMC, make an appointment to meet with me and discuss your needs in order to make the necessary arrangements as early in the term as possible. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable).

**Notes:**
1. The best three of the four tests will be used to determine the test component of your final mark. Only a medical note or extreme misfortune will be accepted to justify the absence on a test. Electronic copies are not accepted. You must come to my office hours to show me your medical note.
2. Problem lists, comments, and other information will regularly be posted on cuLearn. It is your responsibility to look on cuLearn to obtain this information.
3. **I will not necessarily follow the same order of topics as in the textbook. The best way to know where exactly we are in class is to come to class or to follow the order of topics found in the practice problems lists.**
4. Coming to class is very important and I strongly encourage you to do so.
5. It is each student's responsibility to collect the marked tests from the TA. The test papers are normally distributed in the tutorial session.
6. **Pregnancy accommodation:** write to 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 webpage.
7. **Religious obligation:** write to 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 webpage.

**Tentative Class schedule:**

**IMPORTANT:** This schedule is just to give you an overview. Because of several factors, it is quite possible that the timing of topics will be changing as we go further into the course. Some topics may possibly be added, and some may be removed.

The practice problems lists that will be available on cuLearn will give you the exact topics covered on each week.

**September 4th:** Antiderivative, Definition of indefinite integral

**September 9th and September 11th:** Basic rules of integration, Definite integral, Fundamental Theorem of Calculus

**September 16th and September 18th:** Substitution method, Integration by parts

**September 23th and September 25th:** Integration by partial fractions, Trigonometric integrals

**September 30th and October 2rd:** Integration by trigonometric substitution, L'Hospital's Rule, Improper integrals

**October 7th and October 9th:** Sequences, Series, Geometric Series, Telescoping Series

**October 14th and October 16th:** Integral Test, Comparison Test, Ratio Test

**Break Class resume on October 28th**

**October 28th and October 30th:** Root Test, Alternating Series

**November 4th and November 6th:** Power Series, Radius of Convergence, Interval of convergence

**November 11th and November 13th:** Differentiation and Integration of Power Series, Taylor and MacLaurin Series, Binomial Series

**November 18th and November 20th:** Parametric equations, Tangent lines, Arc length

**November 25th and November 27th:** Polar coordinates, Areas and Length

**December 2nd and December 4th:** To be determined