DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES UNIVERSITY OF TORONTO MISSISSAUGA

MAT133Y5Y LEC0101 Calculus and Linear Algebra for Commerce Course Outline - Fall 2019

Class Location & Time

Instructor Tyler Holden

Office Location
Office Hours

E-mail Address tyler.holden@utoronto.ca
Course Web Site https://q.utoronto.ca

Co-Instructor Parker Glynn-Adey

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Co-Instructor Liying Li

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Co-Instructor TJ Yusun

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Course Description

Mathematics of finance, matrices and linear equations. Review of differential calculus; applications. Integration and fundamental theorem; applications. Introduction to partial differentiation; applications. NOTE: This course cannot be used as the calculus prerequisite for any 200-level MAT or STA course, except in combination with MAT233H5. [80L, 24T]

Prerequisite: Minimum 70% in Grade 12 Advanced Functions (MHF4U). Highly Recommended: Minimum 70% in Grade 12 Calculus and Vectors (MCV4U).

Exclusion: MAT132H5, MAT134H5, MAT135H5, MAT136H5, MAT134Y5, MAT135Y5, MAT137Y5, MAT137Y5, MAT133Y1, MAT135Y1, MAT135H1, MAT136H1, MAT137Y1, MAY157Y1, MATA30H3, MATA31H3, MATA32H3, MATA33H3, MATA35H3, MATA36H3, MATA37H3 (SSc)

Distribution Requirement: SSc

Students who lack a pre/co-requisite can be removed at any time unless they have received an explicit waiver from the department. The waiver form can be downloaded from here.

Textbooks and Other Materials

Textbook:

- **Required:** *MAT133 Course Notes*, Available for free on the course website. These will be the primary resource for the course. All required information is included in these notes.
- Optional: Introductory Mathematical Analysis, 13th edition, by Haeussler, Paul, and Wood.

Assessment and Deadlines

Type	Description	Due Date	Weight
Other	Calculus Readiness Assessment		3%
Assignment	Sixteen (16) Assignments	On-going	10%
Term Test	Test #1	2019-10-25	15%
Term Test	Test #2	2019-11-22	15%
Term Test	Test #3	2020-02-07	15%
Term Test	Test #4	2020-03-20	7%
Final Exam	Final examination	TBA	35%

More Details for Assessment and Deadlines

There will be two term tests each term for a total of four (4) Term Tests. They will be held on Fridays from 1600-1800, on the following days:

- Friday, October 25, 2019,
- Friday, November 22, 2019.
- Friday, February 7, 2020,
- Friday, March 20, 2020,

Your worst term test will be weighted at 7%, with all other term tests worth 15%. If you have a conflict with a term test, you must inform the course coordinator (Tyler Holden) within the first two weeks of term.

Penalties for Lateness

Late assignments will NOT be accepted.

Procedures and Rules

Missed Term Work

If you are forced to miss a term test because of an illness or other extenuating circumstance, you **must alert the course coordinator Tyler Holden within 24 hours of the term test**, and provide supporting documentation no later than **one week after the term test**. In particular, the university has <u>very precise procedures regarding documentation of sick notes</u> and a <u>form for extenuating circumstances</u>. Sick notes should be uploaded to the <u>MCS server</u>, at which point you must show the course coordinator (Tyler Holden) an original copy of the note. You will be permitted to keep your sick note once it has been shown to the coordinator.

Failure to adhere to any of these policies will result in your term test being assigned a grade of zero (0).

Students granted an exemption will have the weight of their term test re-allocated to the final exam, starting with the 7% term test first.

Missed Final Exam

Students who cannot write a final examination due to illness or other serious causes must file an<u>online petition</u> within 72 hours of the missed examination. Original supporting documentation must also be submitted to the Office of the Registrar within 72 hours of the missed exam. Late petitions will NOT be considered. If illness is cited as the reason for a deferred exam request, a U of T Verification of Student Illness or Injury Form must show that you were examined and diagnosed at the time of illness and on the date of the exam, or by the day after at the latest. Students must also record their absence on ACORN on the day of the missed exam or by the day after at the latest. Upon approval of a deferred exam request, a non-refundable fee of \$70 is required for each examination approved.

Academic Integrity

Honesty and fairness are fundamental to the University of Toronto's mission. Plagiarism is a form of academic fraud and is treated very seriously. The work that you submit must be your own and cannot contain anyone elses work or ideas without proper attribution. You are expected to read the handout How not to plagiarize (http://www.writing.utoronto.ca/advice/using-sources/how-not-to-plagiarize) and to be familiar with the Code of behaviour on academic matters, which is linked from the UTM calendar under the link Codes and policies.

Final Exam Information

Duration: 3 hours Aids Permitted: None

Additional Information

MAT133 is a first year mathematics course designed for business and commerce students. It is a full credit course, and covers

- Review of Precalculus,
- Financial Mathematics,
- Linear Algebra,

- Discrete Mathematics,
- Derivatives,
- Applications of Derivatives,
- Integration,
- Applications of Integration,Multivariate Differentiation and Integration,
- Modelling with mathematics.

Last Date to drop course from Academic Record and GPA is February 17, 2020.