

MATH*1030 Syllabus Page (Fall 2015)

Section 01: M/W/Fr, 2:30pm - 3:20pm, WMEM

Section 02: M/W/Fr, 3:30pm - 4:20pm, THRN 1200

Instructor: Marcus Garvie

Office: MACN 552

Email: mgarvie@uoguelph.ca

Office Hours: Tue 10-11am, Tue 2-5pm

Prerequisite: 4U Advanced Functions

Restrictions: MATH*1080, MATH*1200. Not available to students registered in the BSC program.

Credit Weight: 0.50

Campus: main

Semester Offering: Fall

Teaching Assistants: see below.

Course Notes:

Students must buy the 'fillable' lecture notes for this course at the University Bookstore (cost about \$30).

(No textbook required).

What to bring to class

- The fillable lecture notes that you bought at the University Bookstore.
- Blank paper, pens/pencils.
- Scientific calculator.

Class Schedule:

See: <http://www.uoguelph.ca/~mgarvie/Teaching/Class-schedule-1030-F15.pdf>

Course and Lecture Content:

This course is primarily intended for business and economics students. The course is designed to introduce and reinforce the essential mathematical skills needed to understand, analyze, and solve business-related mathematical problems. Topics covered include basic algebra; functions, including a review of exponential and logarithmic functions; sequences and series with financial applications; limits; continuity; and differential calculus including derivatives, higher order derivatives, and curve sketching.

Student Learning Outcomes:

- Demonstrate understanding of pre-Calculus including basic algebra.
- Demonstrate a thorough grounding of elementary functions.
- Demonstrate the ability to sketch and interpret a wide variety of graphs.
- Demonstrate understanding of elementary Differential Calculus.
- Demonstrate how to apply mathematics to some simple financial problems.

High-school algebra quiz:

Within the first 3 weeks of classes students must take a quiz covering high-school algebra. The quiz is based on a high-school algebra review,

at <http://www.uoguelph.ca/~mgarvie/Teaching/HighSchoolAlgebraReview.pdf>

and also lecture notes. **Students should work through the review as soon as possible to prepare for the quiz.** The quiz is comprised of 20 randomized questions and is available from the 'Quizzes' section on Courselink. Students have 30 minutes (plus 2 minutes grace period) to complete the quiz. **The quiz can be taken as many times as you like (within the 3 week period). Your highest grade out of all attempts will be recorded.**

Homework (**questions uploaded as the relevant sections are covered**):

- Homework questions are based on lectures and are available here: <http://www.uoguelph.ca/~mgarvie/Teaching/Homework-Problems-1030-F15.pdf>.
- Homework solutions are available here (attempt the problems first!): <http://www.uoguelph.ca/~mgarvie/Teaching/Homework-Solutions-1030-F15.pdf>.
- Homework is not graded, but will be the basis for the Midterm and Final Exam, so you are strongly encouraged to do (as a minimum) the assigned questions.
- You should attempt questions as soon as the appropriate sections have been covered in class.

Tests and exam times:

Exams are based mainly on examples done in class and homework.

- **10% High-school algebra quiz.** Available on Courselink from Sept 11, 10:01am to Oct 2, 11:30pm
- **40% Midterm Exam:** scheduled for Friday, October 23, in class
- **50% Final Exam (multiple-choice):** Thursday, December 10, 7 - 9 pm, Room TBA

Teaching Assistants and Office Hours

The TAs provide 3 office hours per week (week starting Sept 14) according to the schedules below, where help can be provided on homework problems, class problems, and also help with understanding the lecture notes. **Please attend office hours according to your last name (ranges indicated):**

- Last names **A - B**: [Meagan Coffey](mailto:mcoffey@mail.uoguelph.ca) (mcoffey@mail.uoguelph.ca). Office hrs: MACN 536, Mond 1 - 2:30pm, Thurs 11am - 12:30pm
- Last names **C - E**: [Brady Dortmans](mailto:bdortman@mail.uoguelph.ca) (bdortman@mail.uoguelph.ca). Office hrs: MACN 536, Tues 12 - 1:30pm, Wed 12:30 - 2pm
- Last names **F - H**: [Kevin Fatyas](mailto:kfatyas@mail.uoguelph.ca) (kfatyas@mail.uoguelph.ca). Office hrs: MACN 536, Mond 2:30 - 4pm, Thurs 12:30 - 2pm
- Last names **I - L**: [Maryam Ghasemi](mailto:mghasemi@uoguelph.ca) (mghasemi@uoguelph.ca). Office hrs: MACN 536 Tues 1 - 2:30pm, MACN 434 Thurs 1 - 2:30pm
- Last names **M - N**: [Braden Kelly](mailto:bkelly08@uoguelph.ca) (bkelly08@uoguelph.ca). Office hrs: MACN 434, Tues/Thurs 1 - 2:30pm
- Last names **O - R**: [Adrian Lee](mailto:alee15@mail.uoguelph.ca) (alee15@mail.uoguelph.ca). Office hrs: Tues: outside of MACN 315 (the hall way) 3 - 4:30pm, Thurs: outside of MACN 315 (the hall way) 2 - 3:30pm
- Last names **S - T**: [Meghan Timmins](mailto:timmins@mail.uoguelph.ca) (timmins@mail.uoguelph.ca). Office hrs: MACN 536, Thurs 10 - 1pm
- Last names **U - Z**: [Brian Corbett](mailto:corbettb@uoguelph.ca) (corbettb@uoguelph.ca). Office hrs: MACN 434, Tues 1:15 - 4:15pm

The Math & Stats Learning Centre:

The Mathematics & Statistics Department operates a drop-in learning centre where you'll find a team of tutors that can help you understand and solve problems in Math*1030. The learning centre is located on the third floor of the McLaughlin Library in the Science Commons. The hours of operation are as follows:

Monday	Tuesday	Wednesday	Thursday	Friday
9:30-15:30	10:00-16:00	9:30-15:30	10:00-16:00	9:30-14:30

Test preparation checklist:

[Checklist.pdf](#)

Tentative outlines for the midterm and final exam:

- Outline for midterm: [Tentative outline of Midterm.pdf](#)
- Outline for final exam: (uploaded when available)

Sample midterm exam

- Exam: [Math*1030 mock midterm F15.pdf](#)
- Solutions: [Math*1030 mock midterm F15 solns.pdf](#)

Tests and solutions for this year (announced when available)

- Midterm: [Math*1030 midterm F15.pdf](#)
- Midterm Solution: [Math*1030 midterm F15 solns.pdf](#)

Texts recommended for background reading:

There are many books you can consult for background reading. For example:

- Calculus with Applications (9th Edit), M. Lial, R.N. Greenwell, N.P. Ritchey. Pearson/Addison Wesley, 2008.
- Concepts of Calculus with Applications, M. Goshaw. Pearson/Addison Wesley, 2008.
- Calculus (7th Edit), J. Stewart. Brooks Cole, 2012.
- Contemporary Business Mathematics with Canadian Applications (10 Edit), S.A. Hummelbrunner, K. Halliday, K.S. Coombs. Pearson, 2015.
- etc., etc.

Attendance:

Formal attendance will not be taken. However, I *strongly* encourage you to attend class regularly. It is your responsibility to find out what was covered if you miss class.

Email Etiquette:

Although I try to respond to all email messages, please don't ask me math questions by email (come & see me instead - don't be shy!); ask for class notes; tell me that you are going to miss a lesson; or generally ask me a question that you can find out for yourself. Keep your messages to the point, polite, and clearly state your question, with name, student ID, and course details.

Exam policies:

- All exams are **closed book**. You may not use the textbook, crib sheets, notes, or any other outside material. Do not bring your own scratch paper.
- You are not allowed to use laptop computers or cell phones in the exam. Ordinary scientific calculators AND graphing calculators are both permitted in exams.
- The Final Exam is cumulative, i.e., it covers the whole course material.

Academic consideration:

- There will be **NO MAKE-UP MIDTERM EXAM**. If you miss the Midterm exam due to serious illness of yourself or death of your immediate family, please contact me by email ASAP explaining the reason for missing the test. You do **NOT** need to get a doctor's note. If consideration is granted I will re-adjust the weight of assessed material (**your grade will be based on the quiz and the final exam**). For further details concerning Academic Consideration see <https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>
- Athletes who compete away from the University of Guelph during one of the midterms can arrange for their coach to proctor their exam. Just get your coach to contact me and we will make the arrangements.
- If you miss the final exam due to catastrophic events such as serious illness of yourself or death of your immediate family, you will receive an "Incomplete" grade, then (depending on circumstance) you may be allowed to take a make-up exam to receive a letter grade.

Academic Misconduct:

Academic misconduct is broadly understood to mean offences against the academic integrity of the learning environment. Academic misconduct is not tolerated. Please report any and all occurrences. For more details about the University of Guelph's dedication and commitment regarding academic integrity, review <https://www.uoguelph.ca/registrar/calendars/undergraduate/2014-2015/c08/c08-amisconduct.shtml>.

Accessibility:

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible. For more information, contact CSD at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the website <http://www.uoguelph.ca/csd/>.

Course Policy regarding use of electronic devices and recording of lectures:

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

Drop date:

The last date to drop one-semester courses, without academic penalty, is November 6, 2015. For regulations and procedures for Dropping Courses, see the Academic Calendar: <https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>.

Please [email me](#) if you have any comments or questions!