Instructor: Matt Valeriote (office: Hamilton Hall 323, tel. extension: 23402)  
Fall Office hours: TBA  
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Teaching Assistants: Madeleine Baker (bakermj4@mcmaster.ca), Max Lazar (lazarkm@mcmaster.ca), and Arthur Lu (luay@mcmaster.ca)  

Lectures: Fall & Winter Terms: Monday, Wednesday 13:30-14:20 in BSB/120 and Tuesday 8:30-9:20 in HH/105.  

Additional lecture/quiz slot: Thursday 13:30-14:20 BSB/120  


NOTE: The third edition of the text has been used in the course and it is possible to use it this year. Some of the page and section references have changed in the fourth edition, but the material is similar to that found in the third edition.  

Material covered (2014/15):  

- Basics of functions  
- Trigonometric functions and trigonometric equations  
- Inverse trigonometric functions  
- Transcendental functions (exponential, logarithm), and inverse functions  
- Limit and basic notions of continuity  
- Theory and computation of derivatives  
- Analyzing and graphing functions using derivatives  
- Exponential growth and decay  
- Antiderivatives  
- Definite integral and area  
- Some techniques of integration and applications  
- Area and volume  
- Differential equations and modeling  
- Applications of differential equations  
- Sequences and series  
- Functions of several variables (if time permits)  

Quizzes and Homework Assignments:
• The 1D6 Fall coursepack contains 12 assignments, one assignment for each full week of the semester.
• During each full week of the semester, we plan to work through the course material associated to that week’s assignment.
• A copy of the course booklet is available for download from the course website.
• You might be asked to either hand in the assignment or there will be a quiz based on it
• Details for a quiz (material covered, etc.) will be given in class and on the course webpage
• The tentative dates for the Fall semester quizzes are: September 18, October 2, October 16, November 13, and November 27.
• Some exercises require the use of Maple software. Maple is installed on all computers in computer labs, and an introduction to the use of Maple is given in the course booklet. You are not required to buy any software or manuals
• You are required to write well-organized and readable solutions to homework assignments and quizzes. In particular, you have to justify main steps in your solution: refer to definitions (do not restate them, just identify), rules and known properties
• 'Quiz week' in the calendar means that either there is a quiz that week or that the assignment is due (generally on Thursday of that week) in class.
• After assignments/quizzes are marked, they will be returned to you in your tutorial
• For more information, see Homework Assignment section in the course booklet
• Standard McMaster calculator Casio fx 991MS+ may be used to do homework assignments and also during quizzes
• Solutions will be posted (in a downloadable form) on the course web page
• Late assignments will not be accepted

Tests:

• There will be one test in each term.
• Details will be given in class and posted on the course web page
• Standard McMaster calculator Casio fx 991MS+ may be used during tests
• For test dates, consult the course Calendar
• The tentative date/time for the Fall semester test is Tuesday, October 28 from 6:30 to 8:00pm.

Mid-year Examination / Final Examination:

• As scheduled by the Registrar
• Details (e.g., material that will be covered, examination locations, etc.) will be given in class and posted on the course web page
• Standard McMaster calculator Casio fx 991MS+ may be used
**Project:** Done in term 2. Details of the project will be discussed late in the Fall and will also appear on the course web page and in the 1D06 Winter Course booklet.

**Course Evaluation (for the mid-year mark, in December 2014):**
- Homework/quizzes 10 %
- Test 1 30 %
- Mid-year Exam 60 %

**Course Evaluation (for the final mark, in April 2015):**
- Homework/quizzes 15 %
- Test 1 10 %
- Mid-year Exam 15 %
- Test 2 10 %
- Project 10 %
- Final Exam 40 %

**Please Note:** The instructors reserve the right to change the weight of any portion of this marking scheme. For students in good academic standing, other weights might be considered. In either case, the final mark will be computed using this weighting and the new weighting(s). The highest score for a particular student will be her/his final mark. At the end of the course the grades may be adjusted but this can only increase your grade and will be done uniformly. We will use the grade equivalence chart published in the Undergraduate Calendar to convert between percentages and letter grades.

The instructors and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of students to check their McMaster email and course websites weekly during the term and to note any changes. Announcements of any changes will be made in class and also posted on the course website.

**In case of difficulty/problems:** Contact your instructor or your T.A. as soon as possible. Failing that, contact the Director of the Program.

**Caution:** Keep a copy of any paper that is handed in for marking

**McMaster Student Absence Form (MSAF):** This is an on-line, self-reporting tool for students to report absences due to minor medical situations that last up to 5 days and to request accommodation for any missed academic work that is worth less than 30% of the final grade. Please note that this tool cannot be used during any final examination period. It is the prerogative of the instructor to determine the appropriate relief for missed term work. You may submit a maximum of one request per term. The form
should be filled out immediately when you are about to return to class after your absence. It is your responsibility to follow up with your instructor immediately (within two working days) about the nature of the accommodation.

If you are absent for more than 5 days, have missed academic work worth 30% or more, or exceed one request per term, you must see Shelley Anderson or Rebecca Bishop in the Arts & Science Program office (C-105). You will be required to provide supporting documentation.

**McMaster Policy on Academic Integrity:** You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences—e.g., the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty, please refer to the Academic Integrity Policy, located at: [http://www.mcmaster.ca/academicintegrity](http://www.mcmaster.ca/academicintegrity)
The following illustrates only three forms of academic dishonesty: 1) Plagiarism—e.g., the submission of work that is not one’s own or for which other credit has been obtained. 2) Improper collaboration in group work. 3) Copying or using unauthorized aids in tests and examinations.

**Academic Accommodation of Students with Disabilities:** Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Academic accommodations must be arranged for each term of study. Student Accessibility Services can be contacted by phone 905-525-9140 ext. 28652 or email sas@mcmaster.ca. For further information, consult McMaster University’s Policy for Academic Accommodation of Students with Disabilities.

**Your marks:** At the end of the year in April 2015, all grades in the course will be posted (by student number). It is your responsibility to check for errors before the day of the final exam, and to report any discrepancies to your instructors or to your TA. No error will be corrected unless reported by this time.