

ARTSSCI 1D06/Calculus Course Information

Fall/Winter 2016/2017, Term 3

<http://ms.mcmaster.ca/~matt/1d6.html>

Instructor:

[Matt Valeriotte](#) (office: Hamilton Hall Room 323, telephone extension: 23402),
e-mail: matt@math.mcmaster.ca

Fall Office hours:

11:30am to 12:30pm on Tuesdays, 10:30am to noon on Thursdays, and by appointment.

Winter Office hours:

9:30am to 10:20am on Tuesdays, 10:30am to noon on Thursdays, and by appointment.

Teaching Assistants:

- Madeleine Baker (bakermj4@mcmaster.ca) [Wednesdays, 16:30-17:20],
- Matthew Jordan (jordanml@mcmaster.ca) [Wednesdays, 10:30-11:20],
- Harrison Winch (winchht@mcmaster.ca) [Wednesdays, 13:30-14:20]

Lectures: Fall & Winter Terms: Monday 9:30-10:20 in BSB/106, Tuesday 8:30-9:20 in BSB/137 and Tuesday 10:30-11:20 in BSB/106

Additional lecture/quiz slot: Thursday 9:30-10:20 BSB/106

Textbook: "Calculus, early transcendentals, 8TH EDITION", by J. Stewart; published by Cengage Learning.

NOTE: The textbook package from the bookstore includes the book and two student solutions manuals. It is not essential that you have the solution manuals, so you may consider purchasing a used copy of the text (with or without the solution manuals). Older editions of the text may also be used, but some of the numberings of the pages, sections, and problems will be different.

Material covered (2016/17):

- 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
- Parametric and polar curves (if time permits)
- Functions of several variables (if time permits)

Quizzes and Homework Assignments:

- The 1D6 Fall coursepack contains 10 assignments.
- 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 dates for the Fall semester quizzes are: September 22, October 6, October 27, November 17, and December 1.
- 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 date/time for the Fall semester test is Tuesday, November 1. The test will be in two parts: the first will be held from 8:30 to 9:20am and the second from 10:30 to 11:20am (during the scheduled class time on November 1).

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. The due date for the project is Tuesday, February 14, 2017.

Course Evaluation (for the mid-year mark, in December 2016):

Homework/quizzes 10% (22 Sept. 16, 6 Oct. 16, 27 Oct. 16, 17 Nov. 16, 1 Dec. 16)

Test 1 30% (1 Nov. 16)

Mid-year Exam 60%

Course Evaluation (for the final mark, in April 2017):

Homework/quizzes 15%

Test 1 10%

Mid-year Exam 15%

Test 2 10%

Project 10% (14 Feb. 17)

Final Exam 40%

Please Note:

The instructor 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 will be made in class and by using the course email distribution list.

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):

In the event of an absence, students should review and follow the Academic Regulations in the Undergraduate Calendar “Requests for Relief for Missed Academic Term Work.” Please consult the MSAF statement on our website (<https://artsci.mcmaster.ca/forms-requests/>) and direct any questions or concerns to Shelley Anderson or Rebecca Bishop in the Arts & Science Program Office as appropriate.

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>.

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 2017, 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.