

**MATH 121 - Differential and Integral Calculus**  
Fall/Winter 2011/2012

Instructors:

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Course web site: <http://www.mast.queensu.ca/~math121/>

Description:

Differentiation and integration of the elementary functions, with applications to physical and social sciences; Taylor polynomials; multivariable differential calculus. Intended for students planning to concentrate in subjects other than Biochemistry, Biology, Life Sciences, Mathematics or Statistics.

Textbook:

*Single and Multivariable Calculus*, Fifth Edition – Hughes-Hallett

Calculator:

The use of the Casio 991 series calculator is permitted and is the only approved calculator for Arts and Science students.

Mark Distribution:

On-line Proficiency Test: 4% (for completion)

6 Tests (3 each term) – 36% (6% each)

December Exam: 30%

April Exam: 30%

- If the exam mark in a term is higher than any **written** term test, the test mark will be replaced with the exam mark. (Applies to all tests with grades lower than the exam grade, not just the lowest.)
- **If a student misses a test without a valid reason**, the mark for the test will remain a zero, regardless of exam performance. See Rules and Regulations below.

Parts of the course

- **Lectures** will introduce the key ideas of the course, and will be used to work through introductory examples
- **Assignments**, along with solutions, will give you the chance to master the skills of the course
- **Tutorials** will be where tutors can provide additional examples, as well as the opportunity to get further clarification about the assignment problems.
- **Tests** are written during your tutorial times, 3 times per term. They will be based on the “Test Preparation Problems” from the Assignments.

### Rules and Regulations

- All tests are mandatory, and can only be missed through pre-arrangement, or due to illness/family emergency. Notification by email is required within 7 days of the missed test in the case of illness/family emergency.
- In the tests and exam, no resources can be used, except those provided explicitly in the test.
  - First violation on a test: zero on **two** tests, record with the Faculty.
  - Second violation on a test or violation in the exam: zero for the course, communication with the Faculty.

### Test Schedule

The three term tests will be during your tutorials in the following weeks, and will cover the designated assignments/class weeks.

<b>Test</b>	<b>Week</b>	<b>Assignments Covered</b>
1	Oct 3-Oct 7 (Wk 4)	1, 2, 3
2	Oct 31-Nov 4 (Wk 8)	4, 5, 6, 7
3	Nov 28-Dec 2 (Wk 12)	8, 9, 10, 11
4	Jan 30- Feb 3 (Wk 16)	12, 13, 14, 15
5	Mar 6-10 (Wk 20)	16, 17, 18, 19
6	Apr 3-7 (Wk 24)	20, 21, 22, 23

### Statement on Academic Integrity

Academic integrity is constituted by the five core fundamental values of honesty, trust, fairness, respect and responsibility (see [www.academicintegrity.org](http://www.academicintegrity.org)). These values are central to the building, nurturing and sustaining of an academic community in which all members of the community will thrive. Adherence to the values expressed through academic integrity forms a foundation for the "freedom of inquiry and exchange of ideas" essential to the intellectual life of the University (see the Senate Report on Principles and Priorities) Students are responsible for familiarizing themselves with the regulations concerning academic integrity and for ensuring that their assignments conform to the principles of academic integrity. Information on academic integrity is available in the Arts and Science Calendar (see Academic Regulations), on the Arts and Science website and from the instructor of this course. Departures from academic integrity include plagiarism, use of unauthorized materials, facilitation, forgery and falsification, and are antithetical to the development of an academic community at Queen's. Given the seriousness of these matters, actions which contravene the regulation on academic integrity carry sanctions that can range from a warning or the loss of grades on an assignment to the failure of a course to a requirement to withdraw from the university.