

DEPARTMENT OF MATHEMATICS
MATH 2720 – Multivariable Calculus
Fall 2011

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Lectures: Monday, Wednesday, and Friday, 10:30 – 11:20 am at BULLER 306
Text: *Multivariable Calculus* 6th Edition – J. Stewart (for 5th edition, or for “Early Transcendentals” 6th edition, chapter numbers are smaller by one)

Course Outline:

13.1 – 13.5 Review of 3-dimensional coordinate systems and vector operations. Students are responsible for review of this material on their own.
13.6 Cylinders and Quadric Surfaces.
14.1 – 14.3 Vector functions, derivatives and integrals of vector functions, arc length, curvature.
15.1 – 15.8 Functions of several variables: limits, partial derivatives, directional derivatives, maximum and minimum values.
Review of integration techniques from Math 1700.
16.1 – 16.6 Multiple integrals.
17.1 – 17.4 Vector fields, line integrals, Green’s theorem.

Evaluation:	Midterm 1	25%
	Midterm 2	25%
	Final	<u>50%</u>
		TOTAL 100%

Midterms: Wednesday, October 5th, and Wednesday, November 9th (both in class). No make-up tests will be given. If you miss a test for a valid reason such as illness, you must provide official supporting documentation. In the case of a missed test with a valid reason, the other midterm test and the final exam will be prorated. Otherwise, a grade of zero will be assigned for the missed midterm test.

Aids: Use of notes, books, calculators or other computing devices is NOT permitted during the midterm tests and the final examination.

Dates: First day of lectures: September 9, last day of lectures: December 7.
No lectures (holidays): October 10, November 11.

VW deadline: November 16th.

Final Exam: Time (during December examination period) and location TBA.

Faculty of Science Statement on Academic Dishonesty

The Faculty of Science and The University of Manitoba regard acts of academic dishonesty in quizzes, tests, examinations, laboratory reports or assignments as serious offences and may assess a variety of penalties depending on the nature of the offence.

Acts of academic dishonesty include, but are not limited to bringing unauthorized materials into a test or exam, copying from another individual, using answers provided by tutors, plagiarism, and examination personation.

Note: cell phones, pagers, PDAs, MP3 units or electronic translators are explicitly listed as unauthorized materials, and must not be present during tests or examinations.

Penalties that may apply, as provided for under the University of Manitoba's Student Discipline By - Law, range from a grade of zero for the assignment or examination, failure in the course, to expulsion from the University. The Student Discipline By - Law may be accessed at:
http://umanitoba.ca/admin/governance/governing_documents/students/868.htm

Suggested minimum penalties assessed by the Faculty of Science for acts of academic dishonesty are available on the Faculty of Science web - page:
http://umanitoba.ca/faculties/science/resources/Discipline__Penalties_Table_Jul09.pdf

All Faculty members (and their teaching assistants) have been instructed to be vigilant and report all incidents of academic dishonesty to the Head of the Department.