



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

1. **Course:** MATH 353 Winter 2004
Lecture/Time/Session: L01 M W F 14:00 Room # SA 104
Instructor(s): V. Stastna
Office: MS 456 , 220-3345
e-mail: vstastna@math.ucalgary.ca
2. **Prerequisites:** MATH 349
Co-requisites: None

NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined on page 211 of the 2003-2004 Calendar. **It is the students' responsibility to ensure that they have the pre- and co-requisites for the course. If they do not, they will be withdrawn from the course without notice.**

3. **Fee policy:** After the last day to drop/add courses, there will be no refund of tuition fees if a student withdraws from a course, courses or the session.
- 4.
5. **The University policy on grading and related matters** is described on pages 41-42 of the 2003-2004 Calendar. In determining the overall grade in the course, the following weights will be used:

Quizzes	[5]	30%
Mid-term Test(s)	{1}	20%
Final Exam		50%

There **WILL** be a final examination scheduled by the Registrar's Office. A passing grade on the final exam is necessary to pass the course. The use of aids such as open book, etc. is NOT permitted.

6. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are outlined on page 199, of the 2003-2004 Calendar. It is the student's responsibility to familiarize herself/himself with these regulations.
7. **Academic misconduct** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the 2003-2004 University Calendar under the heading "Student Misconduct", pages 53-56.
8. **Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):** There will be no out-of-class-time activities.
REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY
9. **Textbook:** Adams, *Calculus of Several Variables* OR *Complete Course* – any edition.
10. **Quizzes** will be written in tutorials
- on Thursdays: Jan 22, Feb 5, 26, March 25, April 8
- on Tuesdays: Jan 27, Feb 10, March 2, 23, April 6

Mid-term is in class on March 12, 2003.

Syllabus

<u>Topics:</u>		<u>Number of Hours</u>
<u>Differentiation</u>	Extrema of functions of several variables, Lagrange multipliers, Applications	10
<u>Multiple Integrals</u>	Double integrals, Iterated integrals, Double integrals in polar Coordinates, Area, volume, Triple integrals, Triple integrals in Cylindrical and spherical coordinates, Changes of variables, Jacobians	12
<u>Vector Calculus</u>	Vector fields, Line integrals, Independence of path, Green's Theorem Curl and divergence, Surface integrals, Divergence Theorem, Stoke's Theorem	13

Tentative Calendar

Week(s) of: Selections from "Calculus of Several Variables, 5th Ed."

Week	Sections:
Jan 12, 19	10.1, 13.1, 13.2
Jan 26, Feb 2	13.3, 14.1, 14.2
Feb 9, 23	14.3, 14.4, 14.5, 14.6
March 1, 8	15.1, 15.2, 15.3
March 15, 22	15.4, 15.5, 15.6
March 29, April 5	16.1, 16.2, 16.3
April 12	16.4, 16.5