

Simon Fraser University
MATH 251: Calculus III
Course Outline
Fall 2008

Instructor: Dr. David Muraki
Office: SC K10538
Office Hours: by appointment
Workshop Hours: Mondays 1:30-2:30 in AQ 4110
Email: muraki@sfu.ca
Course Web page: newton.science.sfu.ca

Lectures: MWF 08:30 – 09:20 in AQ 3182

Workshop Coordinator: Justin Gray
Office: SC K 10531
Phone: 778-782-4237
Email: jgray@math.sfu.ca

Prerequisite: MATH 152 or MATH 155; or MATH 158 with a grade of A or B.
Recommended: It is recommended that MATH 240 or MATH 232 be taken before or concurrently with MATH 251.

Textbook: James Stewart, *Calculus: Early Transcendentals, 6th Edition*. Publishers Thomson, Brooks/Cole.

Calendar Course Description: Rectangular, cylindrical and spherical coordinates. Vectors, lines, planes, cylinders, quadric surfaces. Vector functions, curves, motion in space. Differential and integral calculus of several variables. Vector fields, line integrals, fundamental theorem for line integrals, Green's theorem.

Calculus Workshop: Students registered in Math 251 are encouraged to come to the Calculus Workshop (AQ 4110) for assistance with problems and questions any time during posted working hours. At the workshop students will have the opportunity to meet with the instructor, teaching assistants and other students, and work together to understand mathematics in a friendly and helpful environment. Please make use of this valuable resource. The workshop **starts** the second week of lectures, Monday, September 8th.

Website: In the LON-CAPA Math 251 container at newton.science.sfu.ca you will find important information about your course, the instructor, and the Calculus Workshop. Assignment and exam solutions will be posted on here. This site is where you will find weekly online homework problems. You will also find discussion boards where you can exchange your questions and ideas about the course topics among each other. From the main menu you will find a link to check your grades.

Assignments: Complete paper assignments are to be submitted to the drop boxes outside the Calculus Workshop on **Monday before 4:30 pm**. Please include a cover sheet that is posted on LON-CAPA. Paper assignments are posted on the course website. **Late homework** is never accepted. In order to account for unexpected illnesses, etc., everyone is excused from one assignment, i.e. lowest paper assignment grade will be dropped.

We are fully aware that solutions to exercises are floating around. We strongly suggest you use these questions to practice with. The level and type of questions are chosen to familiarize you with the terminology and notation of the textbook and exams, to help you understand mathematical concepts, and to prepare you for midterm and final examinations. Blind copying will increase neither your mathematical understanding nor your skill level.

The assignments are a minimum amount of work and do not guarantee your success in this course. You are strongly advised to work through miscellaneous problems and review exercises at the end of each chapter.

Grading: Your grade will be based on:

Paper Assignments	5%
Online Assignments	5%
Midterm 1	20%
Midterm 2	20%
Final Exam	50%

Final Examination Period: The final exam is 3 hours in duration. Students are strongly advised NOT to make plans for travel or employment during the exam period since special arrangements will NOT be made for examinations that may conflict with such plans. In exceptional circumstances (e.g. medical emergency, family death) and with proper documentation, a student **may** be allowed to write the final exam later (never early) if the instructor is informed **as early as possible**.

Questions on Assignments: All questions pertaining to the grading and recording of assignments should be addressed in writing to the workshop coordinator. (See a TA in the workshop to obtain a request form.)

Questions on Midterms:

- Retakes are not given for midterms. If you have missed a midterm you must provide your instructor (**not** the workshop coordinator) with a valid reason otherwise you receive a zero.
- Midterm tests are written in the lecture hall and are 50 minutes in duration.
- All questions pertaining to the grading of midterm exams should be addressed in writing to the instructor and submitted in the workshop during the first week after midterms have been passed back.

Calculator Policy: Unless specifically stated otherwise by your instructor, calculators are not permitted on examinations.

Important Dates:

Midterm 1: Friday, October 3rd

Drop Date: Monday, October 6th

Midterm 2: Friday, November 7th

Final Exam: Wednesday, December 10th, 8:30 – 11:30

Policy on Emailing the Instructor/Workshop Coordinator: Email should ONLY be used as a last resort if you are unable to come up to campus. Students are encouraged to ask questions during and after class, during office hours, in the workshop but NOT through emails.

Academic Integrity: Simon Fraser University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see <http://www.sfu.ca/policies/teaching>).

Cheating has no place in university and we take occurrences of it very seriously. Cheating includes, but is not limited to:

- Using calculators, if not permitted, during examinations
- Looking at work of other students or during examinations
- Using reference materials during midterms examinations that are not explicitly distributed for that purpose
- Handing in copied assignment solutions (from solution manuals, assignments of other students or other sources)

In all these cases, you will receive a failing grade (i.e., no credit) for the work (the assignment portion, midterm, final). The chair of department will be notified and a permanent note will go in your academic file. Further action may be taken as well. See SFU's policy on Academic Dishonesty and Misconduct Procedures above for further information.

Note from your Instructor and Workshop Coordinator: We encourage you to make appropriate use of all sources of available information, including: lecture notes, the textbook, material on the Web, the Calculus Workshop, the teaching assistants, office hours, and other students.