

# **MATH 192 Section S0601**

## **Calculus with Economic and Business Applications II**

### **Jan – Apr 2006**

**Time & Location:** Mon 10:30-11:30, Wed 10:00-11:30, Fri 10:30-12:00; Bldg 360 Rm 323

**Instructor:** Glen Pugh

**Office:** Bldg 360 Rm 325

**email:** pughg@mala.bc.ca (This is by far the best way to reach me!)

**Phone:** (250)753-3245 ext. 2730

**web:** <http://web.mala.bc.ca/pughg>

**Office Hours:** Tue 1:00-3:00  
Fri 8:30-10:30  
or by appointment

**Prerequisite:** Min. "C" in MATH 191.

**Text:** Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences, Eleventh Edition by Haeussler, Paul and Wood

**Course Outline:** This course first extends the theory of differential calculus to functions of several variables, and then gives an introduction to the theory and techniques of integral calculus with applications drawn from business and economics. The course concludes with matrix algebra, an important tool in many branches of applied mathematics. Topics with corresponding sections from the text are:

1. Multivariable Calculus: 17.1-17.8
2. Integration: 14.1-14.12
3. Methods and Applications of Integration: 15.1-15.7
4. Matrix Algebra: 6.1-6.6

**Homework:** Homework will be assigned weekly. Most homework problems will be from the textbook, though I will occasionally draw on problems from other sources. Doing practice problems is essential for learning mathematics and it is crucial that you complete and understand all assigned homework. In addition to the assigned problems, you should also attempt additional problems from the text to reinforce your understanding.

It is important that you are able to solve problems on our own, however you are also encouraged to work together on the problem sets. Explaining your solutions to others and discussing problem strategies contributes enormously to your understanding. You may of course also see me for help with homework problems.

Homework will not be collected for grading, though you will be tested on the homework in the form of quizzes (see below). Answers to odd-numbered problems are in the back of the text.

**Quizzes:** Short in-class quizzes will be given the following **Fridays: Jan 13 & 20; Feb 10 & 17; Mar 17 & 24**. The quizzes will have two to four questions and should only take 15 to 20 minutes. The purpose of the quizzes is to encourage you to keep up on your homework, and the questions will be virtually identical to homework questions assigned. Quizzes are worth 15% of your final grade. Your lowest quiz score will be dropped in the calculation of your average, so you may miss one quiz without penalty. No make-up quizzes will be given.

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**Tests:** There will be three class tests each worth 15% of your grade. The tests will be one hour in length and will be given in class on **Friday Jan 27, Friday Mar 3 and Friday Mar 31**. There will be no make-up tests, but if you miss a class test for a good reason (e.g. illness, with a doctor's note) allowances will be made.

**Final Exam:** There will be a final exam in April worth 40% of your grade. The exam period is Apr 13-26 2006.

**Grading Summary:**

Weekly Quizzes:	15%
Class Tests:	45%
Final Exam	40%

**Grading Scale:**

95-100%	A+	65-69%	C+
90-94%	A	60-64%	C
85-89%	A-	55-59%	C-
80-84%	B+	50-54%	D
75-79%	B	0-49%	F
70-74%	B-		

**Web Page:** <http://web.mala.bc.ca/pughg/Spring2006/math192S0601>

This page will be updated regularly with announcements, extra handouts, homework assignments and quiz/test solutions. Please have a look at it regularly, especially if you miss a class.

**Extra Help:** In addition to help during office hours, you can also get extra help from the tutors in the Math Learning Centre located in Bldg 360 Rm 303.

**Miscellaneous Policies:**

**Calculators:** A basic scientific non-programmable, non-graphing calculator may be used for quizzes, class tests and the final exam. (The Canon F502, available at Staples for about \$9, is plenty).

**Cell Phones:** Turn off and put away before class. Cell phones may NOT be used as clocks or calculators during tests.

**Formula Sheets:** The use of formula sheets will not be allowed for quizzes, tests or the final exam.

**Grade Review:** If you do not agree with the grade received on a test or quiz, you may submit your paper for regrading within three days of the date it was returned to you. In this case, the entire paper will be regraded.