

# **MATH 151 Section F0502**

## **Introductory College Algebra I**

### **Sep – Dec 2005**

**Time & Location:** Mon 10:30-12:30, Bldg 355 Rm 203  
Fri 10:30-12:30, Bldg 200 Rm 106

**Instructor:** Glen Pugh

**Office:** Bldg 360 Rm 325

**Phone:** TBA [for now use 250-740-6361 (secretary, Science & Technology)]

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

**web:** <http://web.mala.bc.ca/pughg/math151F0502>

**Office Hours:** Mon 4:00-5:00  
Wed 10:00-12:00  
Fri 2:30-4:00  
or by appointment

**Prerequisite:** Min. "C+" in Principles of Math 11 or Applications of Math 12 or a pass in Principles of Math 12, or equivalent.

**Text:** Just-In-Time Algebra and Trigonometry for Students of Calculus, Third Edition by G. Mueller and R. Brent

**Course Outline:** This course is an introduction to the theory and techniques of algebra and forms the foundation necessary for calculus and other advanced mathematics courses. Topics with corresponding chapters from the text are

1. Forms of Numbers – Ch 1
2. Solving Equations – Ch 3
3. Functions and Graphs – Ch 4
4. Inverse Functions – Appendix B
5. Manipulating Functions – Ch 5
6. Composition of Functions – Ch 8
7. Word Problems – Ch 10
8. Exponential and Logarithmic Functions – Appendix A & C

Some of these topics will include material not found in the text. Detailed class notes and/or supplementary material will be handed out in class.

**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 weekly quizzes (see below). Answers to odd-numbered problems are in the back of the text.

**Weekly Quizzes:** Short in-class quizzes will be given the following **Fridays: September 16, 23; October 7, 14, 21; November 4, 18, and December 2**. 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.

**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 September 30, Friday October 28 and Friday November 25**. 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 December worth 40% of your grade. The exam period is Dec 8-19 2005.

**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/math151F0502>

This page contains announcements, homework assignments and quiz/test solutions.

**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 <u>non-programmable</u> , <u>non-graphing</u> calculator may be used for quizzes, class tests and the final exam.
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.