Math 100 – Winter 2004 Camosun College

Instructor: Telephone: Email: Office:	Peggy Tilley 370 - 3502 tilley@camosun.bc.ca Ewing 244				
Class times:	12:30 – 1:20 daily in Y227				
Office hours:	10:30 - 11:00 & 1:30 - 2:00 Tues – Fri Please, just one or two questions per visit. Bring me all your attempts so that I can see what you are thinking. You are welcome to try me at other times. If my office door is open, I'll be happy to help.				
Math Room:	Ewing 224 (370 - 3503) This is a drop-in centre where you can work on your math homework and get free help from Aubrey, our math tutor.				
Textbooks:	Calculus of a Single Variable, 7'th ed., Larson et al. (Solution guide included.)				
References: (on reserve in the library)	Is Your Math Ready for Calculus? Walter J Gleason The Algebra of Calculus with Trigonometry, Eric J. Braude Calculus videotapes Tests from previous years				
Calculator:	Non-graphing non-programmable calculator for tests/final				
Prerequisite for Math 100:	Recent B in either Math 115 or Math 12. If you have not taken math for a couple of years, then please come to my office ASAP and we can discuss your math background to see if this is the right course for you.				
Prerequisite for Math 101 :	Recent B- in Math 100 is recommended. However, you may enter Math 101 with a grade of C in Math 100.				
Out-of-Class Workload:	1+ hours every day. Try not to fall behind. Math 100 is not a course that you can put on the "back burner". Find a time every day when you can do your math homework and write it into your schedule.				

Tips for Success:	1. Attend every class and work hard in class. Ask questions if you don't understand something.			
	2. Do your homework every day. Unfortunately, math is not a spectator sport. It takes a lot of consistent hard work. Help is available from me, your classmates, or Aubrey, our math tutor.			
	4. Work thoughtfully through your homework; don't just try to get it over with as fast as possible. It is best not to have the solution manual open in front of you; consult it only after you have tried a problem a couple of times.			
Course Objectives:	The four very ambitious objectives of the course are:			
	• To learn where and how calculus can be used to solve problems in science and mathematics. This involves learning the notation, rules, and techniques of calculus and solving applied problems.			
	• To continue developing your ability to read mathematics.			
	• To be able to write mathematics correctly and to be able to write about the mathematics you are learning.			
	• To begin developing your ability to read and write proofs.			
Course Content:	Math 100 is the first half of first year calculus for mathematics, computer science, physics and chemistry students. Math 108 is a less theoretical and more applied calculus course for biology, business and social science students.			
	Ch 1: Limits and Their Properties: $1.1 - 1.5$ Ch 2: Differentiation: $2.1 - 2.6$ Ch 3: Applications of Differentiation: $3.1 - 3.9$ (omit 3.10) Ch 4: Integration: $4.1 - 4.6$ Ch 5: Logarithmic and Exponential Functions: $5.1 - 5.6$			

Test Content/Dates: The tests are based on class notes and homework. The first test is on **Friday Feb 6.** I'll hand out a schedule in week 3 showing the dates for the remaining 2 term tests. Usually it is not possible to make up a missed test. However, if you provide me with adequate written documentation for your absence, I will estimate a grade for that test based on how you do on that material on the final exam.

In addition to these tests, there will be a number of short quizzes and "show and tell" problems throughout the term. It may be possible to make up one missed class quiz; please see me ASAP.

The final exam occurs after Easter in week 15 or 16.

Grade Calculation:	3 Term Tests:	37.5%
	"Show and Tell" & Quizzes:	12.5%
	Final Exam:	50%*

* If you do better on the final exam, then we will weight your exam for more than 50% if it is to your advantage. There are some conditions. Keep reading.

Your term work (the first two rows of the grade calculation above) is very important. Math that is learned over a period of time is retained for longer; information that is crammed in just before a final is usually quickly forgotten. Furthermore, two of the course objectives, writing about the mathematics you are learning and writing proofs are only assessed in your term work; we do not ask for proofs or detailed step-by-step verbal explanations on the final exam.

So, here is the deal. If it is to your advantage, then you will receive your final exam mark up to a maximum of your term mark + 10%. And, to show you how important we think the term work is, we will say that regardless of how you do on the final exam, the lowest grade you will receive is your term mark - 10%. (Of course, when we say term mark we mean your term mark as a percentage, i.e. out of 100.)

Occasionally someone blows a test even though they attend class regularly and keep up with their homework. (Life isn't fair.) If that happens to you, then please provide me with a written request for special consideration and attach a copy of the test. Please do this before the last week of class. If you do well on that material on the final exam, I can boost your test score accordingly.

And, if you prefer to just work through the course at your own rate and not bother with class quizzes and tests, then you may challenge the course instead of registering for it. The good news is that you only have to pay $\frac{1}{2}$ of the course fee. See Bill Calver (E248) for information about how to register for a course challenge in math. If you decide to challenge, remember to formally withdraw from this course before the end of week 2.

Understand all of the above? Your first "show and tell" problem will give you practice calculating final grades under different scenarios.

Grade Scale:	A+	95 - 100	B+ 80 - 84	C+	65 - 69
	А	90 - 94	B 75 - 79	С	60 - 64
	A-	85 - 89	B- 70-74	D	50 - 59
				F	< 50