Math 100 Camosun College Course Outline
Sections 2 & 3 Fall 2002

Instructor:	Peggy Tilley
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Office:	Ewing 244

Class times: Mon. to Fri. 9:30 – 10:20 or 12:30 – 1:20 in Y217

Office hours: 10:30 – 11:00 & 2:30 – 3:00 most school days
(I'll post a note on my door if I have a meeting and can't hold office hours.)

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 a tutor.

Textbooks: Calculus of a Single Variable, **7'th** ed., Larson et al. (Solution guide included.)
Math 100 Maple Labs

References: Is Your Math Ready for Calculus? Walter J Gleason
(on reserve in the library)   The Algebra of Calculus with Trigonometry, Eric J. Braude
Calculus videotapes

Calculator: Non-graphing non-programmable calculator for midterms/final

Prerequisite for
Math 100:   Recent B in either Math 115 or Math 12

Prerequisite for   Recent B- in Math 100 is recommended. However, you may enter Math
Math 101:   101 with a grade of C in Math 100. Aim for at least 70% on your term tests in Math 100 to allow for some slippage on the final.

**Out-of-Class
Workload**:   1+ hr 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. Ensure that your background is adequate; you should have completed Math 12 with a B within the last 2 years.
2. Attend every class and work hard in class.
3. Do your homework every day. Help is available from me, your classmates or the tutor in the math room.
4. Work thoughtfully through the material; don't just try to get it over with as fast as possible

Homework: Please keep all your homework together in a duotang folder along with the Homework Sheet. On the sheet, circle any questions that you have not correctly completed.
If all your homework is complete, organized and relatively neat, you will receive 10/10 for your homework. Otherwise, your grade will be calculated as follows. First, find the day (row in the table) in which you have the largest number of circled (incomplete) questions. Subtract one mark for each circled problem on that day. (For example, suppose that most days you do all your homework but one day you didn't complete 3 questions and another day you didn't complete 5 questions. Your score for homework would be 5/10.) On test day, please bring your folder to class and I will spot check your work and record your homework mark.

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 both by hand and using Maple, a computer algebra system.
- 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 be able to talk about the mathematics you are learning.

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 two in-class tests are **Friday Oct 11** and **Friday Nov 22.** The last test is a take-home and will be marked in class on **Thursday Dec 5**.

Grade Calculation:

2 Tests & Homework:	20% each*
Takehome Test & Homework:	10%*
Final Exam (Dec 9 – 17)	50% - 100%*

* Each test will be marked out of 90 and your homework will be marked out of 10. This will give you a test score out of 100. Scores below 50% on a test are not recorded; that is, the test counts as a missed test. There are no rewrites for missed tests; instead, you may count the final for a higher percentage. The final exam will count for 50% or more depending on whether it is to your advantage to include three, two, one or none of the term tests.

Grade Scale: (You must score at least 50% on the final exam and have an overall average of 60% in the course to receive a grade of C or higher.)

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

Withdrawal Date: If you decide not to continue in the course, please go to registration and withdraw yourself on or before **Tues Nov 5** to avoid getting an F on your transcript. In addition, please come and see me to discuss options.