## Camosun College

## Math 105-001 Winter 2010

| Instructor: | Wayne Matthews |
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| Telephone: | $370-3107$ |
| Email: | mattheww@camosun.bc.ca |
| Course Website: | http://sites.google.com/site/peggytilley/ |

Office:
Office hours:
Class times:
Out-of-class Workload:

Practice tests and solutions are posted on the website. As well, for every class, there are links to readings, examples and YouTube. If you miss class or want more explanation, these resources may help. Unfortunately I do not have a set of class notes that I can put up. The web material is optional; all the required material is presented in class and/or covered in the printed exercise sets that you buy in the bookstore.

Ewing 248
Mon : 10:00-11:30, M,W,Th: 2:00-3:00
Mon-Fri 12:30-1:50 in Y219
$\mathbf{1 . 5} \mathbf{- 2} \mathbf{~ h r}$ every day (not 10 hours on Sunday!)
We cover a new section each day. This is an intensive 6 credit course. It's very important to stay on top of the material.

Math Help Centres: Ewing 224 and Ewing 342 www.camosun.ca/math-help
These are drop-in study centres where you can work on your math homework alone or with classmates and get free help from the math tutor.

Required Print Material: Math 105 \& 107 Exercise Sets (sold in the bookstore)
References: There is no prescribed textbook since no one book adequately covers all the material. No outside reading is required. However, if you would like a book for a particular topic, there is an assortment of precalculus textbooks in the math room and on reserve in the the library. As well, there are math videos and DVDs in Library Viewing Room which are available on 3 day loan. And, our course website has links to both print and video resources.

| Calculator: | The Sharp EL 531 calculator (the current model is designated 531 W but <br> older models of the 531 are also permitted) is the required calculator for this <br> and all math courses at the Lansdowne campus. For fairness, it will be the <br> only calculator allowed for tests/exams. The first term test will be done <br> without a calculator. You don't need (and should not use) a calculator for the <br> first 4 weeks of class. |
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| Prerequisite: | The minimum recommended prerequisite is a recent C+ in either Math 11 or <br> MATH 073. If you have not completed Math 11 within the past 2 years, then <br> you probably want to refresh in either 072/073 or perhaps just 073 (all tuition <br> free courses) this term. Please come and see myself or the chair of the math <br> department for advice as soon as possible. |
| Comparison of | Math 107 is a lighter version of Math 105. If you need a UT Math 12 level <br> Math 105 and 107: <br> course for environmental technology or applied calculus (Math 108) or a BA <br> degree or a UVic degree in biology, psychology, geography or business, then |

Course Objectives:

Course Content: MATH 105 is an algebra and precalculus course. We start with a review of algebra and analytic geometry and then continue with an in depth study of functions, polynomial functions, rational functions, exponential and logarithmic functions, trigonometric functions and their inverses, trigonometric identities and equations. A brief introduction to calculus is sprinkled throughout the course.

## Tests:

## Missed Tests:

Grade Calculation:

Grade Scale:

| Grade Scale: | A+ $90-100$ | B+ $77-79$ | C+ $65-69$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | A | $85-89$ | B $73-76$ | C | $60-64$ |
|  | A- | $80-84$ | B- $70-72$ | D $50-59$ |  |
| F | $<50$ |  |  |  |  |

Exit Grade You Need: If you are heading for Math 100 (calculus for students in mathematics, computing science, physics, chemistry, geology, etc), then you need a $\mathbf{B}$ in Math 105. For most other math courses and programs, a grade of C in Math 105 is sufficient. Note that many of our college programs and courses require $\mathrm{C}+$ in Math 12 or C in Math 105 or 107 or 115.

## Tips for Success

1. Attend every class and get the most out of class time. Don't be afraid to ask and answer questions. Don't worry about answering a question wrong - wrong answers give me a chance to correct misconceptions. I often give you a bit of time to start or finish a question before we write up the solution on the board. Please use that time to work on the problem or to get help from, or give help to, the person beside you. Please turn off and put away your cell phone. Checking and sending messages is not a smart (or polite) use of class time. Copying notes for a class that you missed rather than working hard on the new material is also not the best (or polite) use of class time.
2. Do your homework every day. Math is not a spectator sport; understanding what we do in class is only the first step. Work through lots of exercises and really think about the ideas; don't just try to get your homework over with! On your timetable, schedule time each day for your math homework; it is really important to establish a routine. You can't put this course on the back burner and hope to cram it in at the end.
3. Work with a classmate (a study buddy) some of the time. It's fun and you will see whether you really understand something when you try to explain it to someone else.
4. Please ask for help before you fall behind or become frustrated. If you can't get the correct answer, bring me your work so that I can see what you are thinking. I like to spend time explaining what is going wrong as well as nudging you towards a correct answer. Don't save up your questions until you have a long list; I find I can be more effective working with you on just one or two ideas at a time. Be a frequent user of the math room and my office hours. We are here to help.
5. Keep working, stay positive and do the best that you can given all the other demands in your life.
