MATH 101 Section S11N01
Calculus for Engineering and Physical Sciences II
Jan – Apr 2011

VANCOUVER ISLAND UNIVERSITY

Time & Location: Mon & Wed 8:30-10:00 in Bldg 360 Rm 323, Fri 8:30-9:30 in Bldg 370 Rm 111

Instructor: Glen Pugh
glen.pugh@viu.ca (This is by far the best way to reach me!)
Bldg 359 Rm 201
(250)753-3245 ext. 2752

Office Hours: Mon 11:30-12:30 & 3:30-4:30, Wed 3:45-4:45, Fri 10:30-11:30, or by appointment

webpage: http://web.viu.ca/pughg/Spring2011/math101S11N01

This page will be updated weekly with announcements, handouts, homework assignments and quiz/test solutions.

Prerequisite: Min. "C" in Math 100, or equivalent.

Text: *Essential Calculus: Early Transcendentals* by James Stewart

A copy of the text is on reserve at the library.

Course Outline: This course covers the theory and application of Integral Calculus, the natural continuation of Differential Calculus, both of which provide the foundation necessary for solving advanced problems in engineering and the physical sciences. Topics covered and corresponding sections from the text are

- Integrals 5.1–5.5
- Techniques of Integration: 6.1–6.6
- Applications of Integration: 7.1–7.6
- Sequences and Series: 8.1–8.8
- Parametric Equations and Polar Coordinates: 9.1–9.4
- Complex Numbers (notes to be provided)

Homework: Weekly homework assignments from the textbook will be posted on the course website.

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 your own; however, you are also encouraged to work together on the problem sets. Explaining your solutions to others and discussing problem solving 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 material. Answers to odd-numbered problems are in the back of the text.

Quizzes: Short in-class quizzes will be given the following **Wednesdays: Jan 12 & 19; Feb 9 & 16; Mar 16 & 23**. Each quiz will have two to four questions and should take about 15 minutes. The purpose of the quizzes is to encourage you to keep up on your homework, and the questions will be identical or very similar to assigned homework questions. 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 75 minute class tests given on the following **Wednesdays: Jan 26**, **Mar 2** and **Mar 30.** Class tests are comprehensive, covering all material since the beginning of the course. Each test is worth 15% of your final grade.

No make-up tests will be given, but if you miss a class test for a good reason allowances may be made. Documentation must be provided to explain your absence: doctor's note in the case of illness, death certificate in the case of death in the family, police report in the case of car accident, etc. No exceptions.

If you are ill on test day and you elect to write the test anyway, your grade will stand.

Final Exam: There will be a comprehensive final exam in April worth 40% of your grade. The exam period is Apr 14-28 2011. Travel plans should not be made until the final exam schedule is released, which is one month before exams begin. **In no event will the final exam be rescheduled to accommodate travel plans.**

Grading Summary:

Quizzes (best 5 of 6):	15%
Class Tests (3):	45%
Final Exam:	40%

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

There is no possibility of end-of-term extra credit assignments or supplemental exams to improve final grades.

Grading Scale:

A+ 90-100%	B+ 76-79%	C+ 64-67%	D 50-54%
A 85-89%	B 72-75%	C 60-63%	F 0-49%
A- 80-84%	B- 68-71%	C- 55-59%	

Extra Help: In addition to help during office hours, you can get extra help from the tutors in the Math Learning Centre located in Bldg 360 Rm 303. A schedule is posted on the door of this room.

Attendance: Attendance will not be taken, however you are encouraged to attend all lectures. If you miss class, read the textbook sections covered and borrow notes from a classmate. I do not lend my class notes.

Student email: Ensure that you have an active email address listed in your student record and that you check it regularly. I occasionally email the class with reminders or notices.

Classroom Environment: I like the classroom environment to be relaxed yet respectful. I encourage you to ask questions, discuss the topics at hand, and quietly listen while your colleagues ask questions or offer comments. Please don't sit and chat if you don't feel like being in class on a particular day. Arrive on time, and if you must leave class early for an appointment, please advise me ahead of time so that disruption is minimized.

Academic Misconduct: Incidents of cheating or other academic misconduct carry severe consequences and will be dealt with seriously. Refer to VIU Policy 99.01 and Procedure 99.01.001.

Calculators & Translators: Calculators and translators may be used for quizzes, tests and the final exam.

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

Formula Sheets: Formula sheets may be used for tests and the final exam. I will say more on this later.