MATH 121 Section F17N04
Calculus I
Sep – Dec 2017

VANCOUVER ISLAND UNIVERSITY

Time & Location: Mon & Wed 2:30 - 4:00; Fri 2:30-3:30; all in Bldg 360 Rm 324

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, Tue 1:00-2:30, Fri 11:30-1:00 or by appointment.

I am available at office hours to answer questions and help with homework. Come prepared to show me your attempted homework, and have your class notes organized.

webpage: http://web.viu.ca/pughg/Fall2017/math121F17N04

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

Prerequisite: Prerequisite: Min. "B" in either Pre-calculus 12, Principles of Mathematics 12, MATH 152, or equivalent. Students with only a "C+" or "B-" in any of the above mentioned mathematics courses can meet the prerequisite by obtaining a min. "B" in MATH 151.

Text: ***Single Variable Essential Calculus: Early Transcendentals*** *(1st or 2nd Ed)*,
or
Essential Calculus: Early Transcendentals *(1st or 2nd Ed),* both by James Stewart.

Any of these books will do for this course. If you plan on taking Math 110 or 200 later you will need the longer book *Essential Calculus: Early Transcendentals*. A copy of the text will be placed on two hour reserve at the library.

Course Outline: This course covers the basic theory and application of Differential Calculus which, along with Integral Calculus (Math 122), provides the foundation necessary for solving advanced problems in engineering and the physical sciences. Topics covered and corresponding sections from the text are

- Pre-calculus and Trigonometry Review: Online material and Appendix A
- Functions and Limits: 1.1–1.6
- Derivatives: 2.1–2.8
- Inverse Functions: 3.1–3.7
- Applications of Differentiation: 4.1–4.6

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, and fully worked solutions can be found in the optional ***Student Solution Manual*** available for purchase at the bookstore.

Tests: There will be 80 minute class tests given on **Mon Sep 25, Mon Oct 16, Mon Nov 6** and **Mon Nov 27.** 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.

Test absence due to religious observance may be accommodated, however you must notify me in advance of the test and provide full details of the observance in question.

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 December worth 40% of your grade. The exam period is Dec 8-19 2017. Travel plans should not be made until the final exam schedule is released, which is at least one month before exams begin. **In no event will the final exam be rescheduled to accommodate travel plans.**

Grading Summary:

Class Tests (4):	60%
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.

If you miss two or more tests I will recommend that you withdraw from the course, and I will support a request for late withdrawal in the case of medical related issues. I will not support a request for late withdrawal once the final exam has been attempted.

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. The schedule will be posted on the room door after the first week of classes.

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 nor will I reteach material during office hours.

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. During class, texting, listening to music, surfing the web, etc, is rude: please don't do it.

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: Neither calculators nor translators may be used for tests or the final exam.

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 NOT be used for tests or the final exam.