

# MATH 122 Section S08N03

## Calculus II

### Jan – Apr 2008

**Time & Location:** Mon 1:30-2:30, Wed & Fri 1:00-2:30 in Bldg 360 Rm 324

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

**Office Hours:** Mon & Wed 10:00-11:00,  
Thur 1:00-3:00, or by appointment

**webpage:** <http://web.mala.ca/pughg/Spring2008/math122S08N03>

This page will be updated weekly with announcements, handouts, homework assignments and test solutions. Please consult it regularly, especially if you miss a class.

**Prerequisite:** Min. "C" in Math 121 or "C-" in Math 100

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

Your textbook is a valuable learning resource, not merely a source of homework problems: read the pertinent sections as we progress through the material. A copy of the text is on reserve at the library.

**Course Outline:** This course covers the basic 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

Additional Inverse Functions: 3.5–3.7  
Integrals: 5.1–5.5  
Techniques of Integration: 6.1–6.6  
Applications of Integration: 7.1–7.6  
Taylor Series: 8.7–8.8

**Homework:** Weekly homework assignments will be posted on the course website. Most homework problems will be from the textbook, though I may occasionally draw on problems from other sources.

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 **Mondays: Jan 14 & 21; Feb 11 & 18; Mar 10 & 17**. Each quiz will have two to four questions and should take about 20 minutes. The purpose of the quizzes is to encourage you to keep up on your homework, and the questions will be virtually identical to homework questions assigned. 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 55 minute class tests given on the following **Mondays: Jan 28, Mar 3 and Mar 31**. Class tests are comprehensive, covering all material since the beginning of the course. Each test is worth 15% of your final grade.
- There will be no make-up tests, 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 16-25 2008. 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 extra credit assignments or supplemental exams to increase the final grade.
- Grading Scale:**
- |         |    |        |    |        |    |        |   |
|---------|----|--------|----|--------|----|--------|---|
| 95-100% | A+ | 80-84% | B+ | 65-69% | C+ | 50-54% | D |
| 90-94%  | A  | 75-79% | B  | 60-64% | C  | 0-49%  | F |
| 85-89%  | A- | 70-74% | B- | 55-59% | C- |        |   |
- 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.
- 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 Malaspina University-College Policy 99.01 and Procedure 99.01.001.
- Calculators:** A basic scientific non-programmable, non-graphing calculator may be used for class tests and the final exam. (The Canon F502, available at Staples for about \$9, is plenty). Sharing calculators during quizzes and tests is not permitted.
- Translators:** Electronic translators may NOT be used for quizzes, tests or the final exam.
- Cell Phones/iPods:** Turn off and put away before class. Cell phones may NOT be used as clocks or calculators during tests. If your phone rings during a test or quiz, 5% will be deducted from your grade.
- Formula Sheets:** Formula sheets may NOT be used for quizzes, tests or the final exam.