

MAT 1320 E Calculus I Fall 2009

Instructor: Dr. Catalin Rada

Office: 585 King Edward (KED), Room B07 B **Phone:** 562-5800, Extension 2029

E-mail: catalin.rada@alumni.uottawa.ca

Website: www.mathstat.uottawa.ca/~crada292

(Note: the website is very important to the course - students are expected to be aware of all material and announcements posted there.)

Office Hours: Mondays 17:05 - 18:05. Other times may be arranged by appointment.

Text: *Calculus: Concepts and Contexts* by James Stewart, 4th Edition.

Lectures: Saturdays 09:00 - 12:00 in HGN 302

DGD's: Mondays 13:00 - 14:30 LPR 285 . Attendance is optional.

During the DGD's, a Teaching Assistant (TA) will help you solve practice problems and explain the solutions to assignment problems handed in previously. *These problems provide excellent practice for the midterm tests and the final exam, which will consist of similar problems.*

Midterm Tests: There are two 80 minute midterm tests, written during the lecture period:

Test 1: Saturday October 10th, Covers §1.1 - 3.3

Test 2: Saturday November 14th, Covers §3.4 - 4.8

Final Examination: The 3 hour final exam will be scheduled during the exam period (December 9th - 23rd). It will cover all of the material of this course.

Calculation of the final grade: Assignments 10%, Midterm Tests $2 \times 20\%$, Final Exam 50%.

Note: if your final exam mark is below 40%, then your final grade will be **F** regardless of other marks.

Midterm Test Procedures:

- If a midterm is missed for a valid reason, its percentage weight will be transferred to the final exam provided you notify your professor by e-mail *before* the test is written and submit a proper justification (e.g. certificate from UO Health Services) when you return to class.
- Only basic scientific calculators are permitted on the tests and on the final exam: non-programmable, non-graphing, no differentiation or integration capability. Use of a calculator with any of these capabilities is considered academic fraud. *Don't forget to set your calculator to radians!*
- Students may not enter after or leave before 20 minutes have passed from the beginning of a test.
- Students must present their student cards if asked.
- Any attempt at copying is treated as a case of academic fraud, as is the facilitation of copying by others. Students must take reasonable care to prevent others from copying their work.

- Any questions concerning marks or the marking must be submitted to the professor within two weeks after the test.

Assignment Procedures:

- The problem sheets for each assignment will be posted as a PDF file on the course website. The completed problem sheets are to be handed in, the suggested exercises on the next page are not - both serve as sample problems for the tests and the exam.
- Each assignment must be handed in on a *stapled printout* of the problem sheets at the *beginning* of class on the day it is due (on Saturdays at 9:00). *This regulation is strictly enforced* to help insure that the assignments are prepared with the care required, in a format that facilitates the marking. *Be sure to be in class on time* to hand in the assignment. Late assignments will not be accepted under any circumstances, but one assignment will not be counted (lowest or missing mark). If you are unable to hand in an assignment for a valid reason, it will not be counted provided you notify the professor by e-mail *before* the assignment is due and submit a proper justification (e.g. certificate from UO Health Services) as soon as possible.
- Solutions to an assignment will be posted on the course website shortly after it is handed in. Point-values will be indicated on the solutions. Please Note: not all of the problems of an assignment will necessarily be graded.
- If you are unable to pick up your assignment yourself, you can ask somebody else to pick it up for you. If you have questions concerning the marking, write them on the assignment paper and hand it in again with the next assignment. It will be returned together with that next assignment. To insure privacy, you may wish to identify your assignment paper by your student number only. If you have further concerns about privacy issues, please see your professor.

Attendance: Students who miss a substantial number of classes will usually not pass the course, thus wasting their investment in time and money. To help both students and the University to make good use of their resources, the Faculty of Science has laid down the following regulation. *To be admitted to the final examination in a subject, a student must attend a minimum of 80 per cent of classes with no more than five unauthorized or unjustified absences in that subject.* (From the Calendar of the Faculty of Science, available on the UO website.) Handing in an assignment serves as an attendance check. If you did not complete an assignment you should hand in instead a sheet of paper with your name and student number, dated and signed, to register your attendance. The mark for the assignment will be zero, but your attendance will be registered. Otherwise your grade file will show the entry ABS for the assignment, indicating your absence. If you did complete an assignment but are unable to come to class, you may ask another student to hand it in for you. Your assignment will then be marked, but your absence will be recorded together with your assignment mark, unless you submit a proper justification. Any student handing in an assignment for another student must notify the professor - attempting to hand in an assignment for another student without notifying the professor is treated as a case of fraud.

Need Help? You can get help at the *Mathematics Help Centre* and at the four weekly DGD's. The Help Centre is located in Marion 021. It is open Monday - Thursday 10:00 - 19:00 and Friday 10:00 - 16:00. The second Help Centre in Marion 023 is intended for the Statistics courses. The staff at the Help Centre and the TA's in the DGD's will be pleased to help you solve the practice problems or other problems from the text, but *not problems on the next assignment*. If you have difficulties with an assigned problem, ask for help with a similar problem from the text instead. If you have difficulties with the material presented in the lectures rather than with particular problems, see your professor during office hours or make an appointment.

Suggested Exercises:

- §1.1 p21 # 1, 9, 23, 25, 27, 33
- §1.2 p35 # 1, 3, 9, 15
- §1.3 p43 # 1, 3, 5, 27, 31, 33, 35, 41, 43, 45, 51
- §1.5 p59 # 19, 21, 23, 29, 31
- §1.6 p69 # 5, 7, 9, 11, 15, 17, 19, 21, 23, 25, 29, 49, 51, 55
- App C pA25 # 1, 3, 11, 13, 33
- §2.1 p94 # 1, 3, 7
- §2.6 p142 # 1, 3, 5, 7, 11, 15, 17, 21, 23, 27, 29, 31, 33, 37, 39, 43
- §2.7 p155 # 3, 5, 9, 11, 13, 19, 21, 25, 27, 35, 41
- §2.8 p162 # 1, 3, 5, 15, 17, 19, 21, 23, 27
- §3.1 p181 # 5, 7, 11, 13, 15, 19, 23, 25, 29, 41, 45, 47, 49, 51, 59
- §3.2 p188 # 1, 3, 5, 7, 9, 11, 13, 17, 23, 25, 27, 29, 39, 41, 43, 45, 51, 57
- §3.3 p195 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 27, 29, 31, 33
- §3.4 p205 # 1, 3, 5, 7, 9, 11, 13, 17, 19, 21, 23, 25, 29, 31, 33, 35, 43, 49, 51, 53, 57
- §3.5 p214 # 1, 3, 5, 9, 13, 17, 25, 27
- §3.6 p220 # 1, 3, 9, 11, 17, 19, 23, 25, 27, 33
- §3.7 p226 # 3, 5, 7, 9, 11, 13, 17, 25, 27, 29, 33, 35
- §3.9 p245 # 5, 7, 9, 11
- §4.1 p260 # 3, 5, 7, 9, 11, 15, 23, 27, 33, 35
- §4.2 p268 # 3, 5, 9, 11, 25, 33, 35, 37, 41, 43, 47, 49, 51, 53
- §4.3 p279 # 5, 7, 9, 11, 13, 17, 19, 21, 27, 31, 33, 37, 39, 59
- §4.5 p296 # 1, 3, 5, 7, 9, 13, 19, 21, 33, 37, 39, 41
- §4.6 p305 # 3, 5, 7, 9, 11, 13, 15, 25, 31, 35, 51
- §4.7 p315 # 3, 5, 7, 11, 23
- §4.8 p321 # 1, 5, 7, 9, 11, 13, 19, 21, 25, 27, 29, 31, 43
- §5.1 p341 # 1, 3, 5, 11, 15
- §5.2 p353 # 5, 7, 9, 11, 19, 31, 37, 41, 43
- §5.3 p363 # 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, 23, 25, 51, 53
- §5.4 p372 # 3, 5, 7, 9, 13
- §5.5 p381 # 1, 3, 5, 7, 11, 13, 15, 19, 21, 23, 27, 29, 35, 39, 45, 47, 53, 55, 63
- §5.6 p387 # 1, 3, 7, 9, 11, 13, 17, 19, 21, 25, 27, 39, 41
- §5.7 p393 # 1, 5, 7, 9, 11, 13, 21, 23, 29, 31
- App G pA54 # 9, 11, 23, 27
- §5.9 p411 # 5, 9, 15, 17

Schedule:

§1.1, 1.2

§1.3, 1.5

§1.6, App C

§2.1, 2.6

§2.6, 2.7

§2.8, 3.1

§3.2, 3.3

§3.4, 3.5

Test 1. Covers §1.1 - 3.3

§3.5, 3.6

§3.7, 3.9

§4.1, 4.2

§4.3

§4.5

§4.6

§4.7, 4.8

§5.1, 5.2

Test 2. Covers §3.4 - 4.8

§5.2, 5.3

§5.3, 5.4

§5.5

§5.6

§5.7, App G

§5.9

Some Sessional Dates:

Sept. 9 Classes Begin

Oct. 12 Thanksgiving Day

Oct. 16 U of O Day (no classes)

Nov. 2 Last day for withdrawal

Dec. 7 Classes End

Dec. 9-23 Examination Period