

MAT 1320 3X Calculus I Summer 2014

Instructor: Dr. Catalin Rada

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

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

Website: I use Virtual Campus and/or www.mathstat.uottawa.ca/~crada292

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

Office Hours: TBA Other times may be arranged by appointment.

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

Lectures: TUE, 19:00 - 20:30 MRT 212 and THU, 19:00 - 20:30 MRT 212

DGD's: You may attend any of the DGD's (Labs) you wish. Attendance is MANDATORY.

THU, 17:30 - 19:00 MRT 251

THU, 17:30 - 19:00 MRT 252

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: JUNE 5,

Test 2: JULY 15,

Final Examination: The 3 hour final exam will be scheduled during the exam period (Tuesday, July 29; in STE B0138, 19:00-22:00). 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 WRITTEN assignment will be posted as a PDF file on the course website or Virtual Campus. 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 (usually on Wednesdays at 19:00). *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.
- If you did complete an assignment but are unable to come to class, you may ask another student to hand it in for you. 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.
- 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.
- There is the possibility that students may have the option of submitting some or all of their assignments electronically using the MapleTA system. If this is the case, further information will be given in class and on the class website.
- For electronic assignments, you will usually have the opportunity to redo a given assignment as many times as you like before the deadline. As each assignment is personalized, the questions will not be the same, but will be of the same general type. Only the highest mark you receive on a given assignment will be counted toward your final grade. After each attempt, you may consult the solutions and compare them with your responses; you are strongly encouraged to do each assignment at least twice for practice. Look at your assignment as early as possible and ensure that you've completed them before the due date. You will find your password for MapleTA under the Grades section of Virtual Campus.

http://www.mathstat.uottawa.ca/ugrad/MapleTA_en.html

<http://place32.placementtester.com:8080/uottawa/login/login.do>

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 From May 12 to August 1 inclusive:
 -Monday-Thursday: 10 to 3 -Friday: Closed

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

Weekly Schedule:

Week 1

§1.1, 1.2

Week 2

§1.3, 1.5

§1.6, App C

Week 3

§2.1, 2.6

§2.6, 2.7

Week 4

§2.8, 3.1

§3.2, 3.3

Week 5

§3.4, 3.5

Test 1. Covers §1.1 - 3.3

Week 6

§3.5, 3.6

§3.7, 3.9

Week 7

§4.1, 4.2

§4.3

Week 8

§4.5

§4.6

Week 9

§4.7, 4.8

§5.1, 5.2

Week 10

Test 2. Covers §3.4 - 4.8

§5.2, 5.3

Week 11

§5.3, 5.4

§5.5

Week 12

§5.6

§5.7, App G

Week 13

§5.9