

MAT 1322 B Calculus II Winter 2016

Instructor: Dr. Steve Desjardins

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(Note: the website is very important to the course - students are expected to be aware of all material and announcements posted there. Your grades will appear in the Blackboard GradeBook for this course.)

Office Hours: Mondays 12:00 - 14:00 and Wednesdays 11:00 - 13:00. Other times may be arranged by appointment.

Text: *Calculus: Early Transcendentals* by James Stewart, 7th Edition.

Lectures: Mondays 10:00 - 11:30 and Wednesdays 8:30 - 10:00 in CBY C03

DGDs: These are discussion groups on Fridays, led by a graduate student TA. **Attendance is mandatory. The first DGD is Friday, January 15th.** You will have registered for one of several equivalent DGDs:

- 10:00 - 11:30 in LMX 219
- 11:30 - 13:00 in SMD 227
- 13:00 - 14:30 in MRT 221
- 14:30 - 16:00 in CBY D103
- 16:00 - 17:30 in LPR 285

In DGDs, you work through suggested exercises as a group, as well as go over solutions to assignments. Prepare for the DGD by attempting all exercises from the previous week. You should then ask the TA to go over the problems you found difficult. There will also be brief Quizzes given in the DGDs.

The list of exercises from the textbook, together with the assignment 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: Wednesday, February 10th, Covers §6.1 - 9.4

Test 2: Wednesday, March 16th, Covers §11.1 - 11.10

Final Examination: The 3 hour final exam will be scheduled during the exam period (April 14th - 27th). It will cover all of the material of this course.

**Calculation of the final grade: Assignments 10%, DGD Quizzes 10%,
Midterm Tests $2 \times 15\%$, 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 Faculty-approved calculators are allowed on tests and during the final exam. These are basic scientific calculators: non-programmable, non-graphing, no differentiation or integration capability. The use of a calculator with any of these banned 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:

Electronic Assignments will be completed using a web-based software called Maple TA.

- Your username is *your student number*.
- To get your password, go to <http://aix1.uottawa.ca/~bdionne/teaching/MapleTA.en.html> and follow the instructions.
- Log on to the Maple TA website at <http://place32.placementtester.com:8080/uottawa/login/login.do> (link on website).
- The first assignment is “How does Maple TA work?”. Please log in and complete this assignment to familiarize yourself with the system.
- Please note that server access will be slower during peak times (such as a few hours before the deadline) – **plan ahead and avoid frustration**.

Please note that one assignment mark will be dropped (lowest or missing grade) in the calculation of your final grade.

Need Help? In addition to your weekly DGD, the Lectures, and the Professor's Office Hours, you can get help at the *Mathematics Help Centre*

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

The Help Centre is located in Marion 021. It is open Monday – Wednesday 10:00 – 19:00, Thursday 10:00 – 17:00 and Friday 10:00 – 15:00.

The staff at the Help Centre and the TAs in the DGDs will be pleased to help you solve the practice problems or other problems from the text, but *not problems for 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:

§6.1 p427 # 1, 3, 7, 9, 11, 13, 15, 17, 19, 21, 23

§6.2 p438 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 47, 49, 51, 55

§6.3 p444 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 45, 47

§6.4 p449 # 5, 9, 11, 13, 15, 17, 19, 21, 23

§6.5 p453 # 1, 3, 5, 7, 15, 17, 19

§7.8 p527 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 49, 51, 53, 57, 59

§8.1 p543 # 7, 9, 11, 13, 15, 17

§8.3 p560 # 1, 3, 5, 7, 9, 11, 13, 17, 25, 27, 29, 31, 33

§9.1 p584 # 1, 3, 5, 9, 15

§9.2 p592 # 1, 3, 5, 7, 19, 21, 23

§9.3 p600 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 37, 39, 41, 45

§9.4 p613 # 1, 3, 5, 7, 9

§11.1 p700 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 55

§11.2 p711 # 1, 3, 5, 7, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 57, 59, 61, 63, 67, 69

§11.3 p720 # 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 29

§11.4 p726 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 37

§11.5 p731 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 23, 25, 27, 29

§11.6 p737 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 35, 37

§11.7 p740 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37

§11.8 p745 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31

§11.9 p751 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 25, 27, 29, 31, 33, 37, 39

§11.10 p765 # 1, 3, 5, 7, 9, 15, 17, 19, 25, 27, 29, 31, 33, 35, 37, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69

§12.6 p832 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 41

§14.1 p888 # 1, 5, 7, 9, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 32, 39, 41, 43, 45, 47, 49, 51, 53, 59, 61, 63, 65, 67

§14.2 p899 # 5, 7, 9, 11, 13, 15, 29, 31, 33, 35, 37

§14.3 p911 # 3, 5, 7, 9, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 47, 49, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 83, 87, 93

§14.4 p922 # 1, 3, 5, 11, 13, 15, 17, 19, 21, 31

§14.5 p930 # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 39, 41, 45, 47, 53

§14.6 p943 # 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 29, 31, 33, 41, 67

Weekly Schedule:

Week 1

Mon. Jan. 11 §6.1, 6.2

Wed. Jan. 13 §6.2, 6.3

Week 2

Mon. Jan. 18 §6.4, 6.5

Wed. Jan. 20 §7.8

Week 3

Mon. Jan. 25 §8.1, 8.3

Wed. Jan. 27 §9.1, 9.2

Week 4

Mon. Feb. 01 §9.2, 9.3

Wed. Feb. 03 §9.3, 9.4

Week 5

Mon. Feb. 08 §11.1, 11.2

Wed. Feb. 10 **Test 1.** Covers §6.1 - 9.4

Week 6

Mon. Feb. 22 §11.2, 11.3

Wed. Feb. 24 §11.4

Week 7

Mon. Feb. 29 §11.5

Wed. Mar. 02 §11.6, 11.7

Week 8

Mon. Mar. 07 §11.8, 11.9

Wed. Mar. 09 §11.10

Week 9

Mon. Mar. 14 §12.6, 14.1

Wed. Mar. 16 **Test 2.** Covers §11.1 - 11.10

Week 10

Mon. Mar. 21 §14.1, 14.2

Wed. Mar. 23 §14.3

Week 11

Wed. Mar. 30 §14.4

Week 12

Mon. Apr. 04 §14.5

Wed. Apr. 06 §14.6

Week 13

Mon. Apr. 11 Review

Some Sessional Dates:

Jan. 11 Classes Begin

Feb. 15-19 Study Break

Mar. 24 Last Day for Withdrawal

Mar. 25-28 Easter Break

Apr. 12 Classes End (Friday schedule)

Apr. 14-27 Examination Period