

Calculus for Business, Life and Social Sciences I Fall 2008

Math 1743-006

Meetings: M W, 3:30-4:45
PHSC 0363

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PREREQUISITES

You must have completed Math 1643 or equivalent with a grade of D or better, or passed the math placement test at the appropriate level. Students not meeting the prerequisites will be dropped from class role (if there is a problem, you will be notified). I will assume that all students have a good working knowledge of the basic concepts from Pre-Calculus as well as some facility with the TI-83/4.

MATERIALS

Required Text: Calculus Concepts 4th edition by Latorre, Kenelly, Reed, Carpenter, Harris, and Biggers

Optional Texts:

(i) Graphing calculator Instruction Guide to Accompany Calculus Concepts by Iris Brann Fetta available online at:

http://college.cengage.com/mathematics/latorre/calculus_concepts/4e/resources.html

(ii) Student Solution Manual to Accompany Calculus Concepts by Latorre...

Old Exams:

Exams from last semester (including keys) are/will be available in two locations:

(i) Online through the library's "electronic reserves:" <http://www-lib.ou.edu> (select **e-reserves**)

(ii) LEARN@OU: <http://learn.ou.edu>

Calculator: The TI-83 or TI-84 is required for this course. I will make reference to using this specific calculator in class and the text assumes this is the calculator you have. If a student wishes to use a different calculator which seems to accomplish the same goals in a similar manner, the student takes complete responsibility for this decision (I do **not** recommend this option). You cannot use the TI-89 or any other calculator which performs symbolic differentiation or symbolic integration.

RESOURCES:

Office Hours:

My office is located in PHSC 912, and my office hours will be at the Math Help Lab; Mondays: 9:30-10:30, Tuesdays: 9:00-12:00, Wednesdays: 9:30-10:30, or by appointment- you may schedule it through emails.

Math Help Lab:

The Mathematics Help Center is located in Physical Sciences 425A and is open M/W/F 9:30am-5:30pm and T/Th 9am - 5pm. Math graduate assistants will be available on a walk-in basis during these times to help you.

Another resource available to you is the Math Lab located in the Housing Learning Center in

Adams Residence Hall, Muldrow Tower, first floor lounge. Call 325-2452 for hours of operation.

Tutors:

A list of tutors is available in the Math department office, PHSC 423.

CLASSWORK

Classwork will be assigned in form of Quizzes and Homework assignments and sums to a total of 50pts.

Quizzes:

- ❖ Daily (first five minutes of class)
- ❖ 10pts
- ❖ No make-ups
- ❖ Closed notes/books

Homework:

- ❖ Due every class period
- ❖ Once we finish a section the homework assignments from that section is due the next class period
- ❖ 10pts each
- ❖ Graded on completion
- ❖ See the last page for a complete list of homework assignments.
- ❖ **Be sure to staple your entire assignment together**, write your name on it! and please label each problem by its chapter, section, and number (e.g. #2.3.28).
- ❖ **NO LATE HOMEWORK WILL BE ACCEPTED.**

Your homework and quizzes points will add up to approximately 800points all together. It will then be scaled down to 50 points. For example: if you get only 400 of the 800 points, you will get a 25 for your homework and quiz grade. In the event of any extra credit or bonus points available on quizzes or homework, a student's classwork total points cannot exceed 50 points. If it does, it will be truncated. **NO HOMEWORK ASSIGNMENTS OR QUIZZES WILL BE DROPPED.**

EXAMS

There will be three exams plus a comprehensive final exam. Exams I - III are worth 100 points each, and the Final Exam carries 200 points. All exams will be held outside of class in the evening. I will specify the locations later.

Any student caught cheating will be dealt with in the most serious possible way. Students are expected to be aware of the guidelines set by the provost governing academic misconduct, available at <http://www.ou.edu/provost/integrity>.

UNIFORM EXAM DATES/TIMES/LOCATIONS:

Exam I – Tuesday 23 September 7:30-8:45 p.m. in_____.

Exam II – Tuesday 28 October 7:30-8:45 p.m. in_____.

Exam III – Tuesday 2 December 7:30-8:45 p.m. in_____.

Final Exam – Thursday 18 December 7:30-9:30 p.m. in_____.

All students are expected to adjust their schedules to accommodate these tests. The only acceptable reasons for a makeup will be a normally scheduled class on Tuesday night that runs into the exam time, or a University sponsored school activity in which you directly participate. All requests for make-up exams **MUST** be submitted to your instructor in writing, using a form obtained from your instructor, by the last class meeting of the week prior to the exam affected. Make-up exams will be offered on Wednesday, the day after the regularly scheduled exam. In the event of an illness or some unexpected event which prevents you from attending the regularly scheduled exam, it is imperative that you contact your instructor as soon as possible (do NOT wait until you return to class!) and include a way that you can be reached.

GRADING

Classwork (Quizzes+Homework)	50
Exams	300 (3 x 100)
<u>Final Exam</u>	<u>200</u>
Course Total	550 points possible.

Your course grade will be based on a 550 point scale:

$495 \leq A \leq 550$		$90\% \leq A \leq 100\%$
$440 \leq B < 495$		$80\% \leq B < 90\%$
$385 \leq C < 440$	or	$70\% \leq C < 80\%$
$330 \leq D < 385$		$60\% \leq D < 70\%$
$0 \leq F < 330$		$0 \leq F < 60\%$

HOLIDAYS

1 September: Labor Day
10 October: OU/TX Day
26 – 30 November: Thanksgiving Holiday

WITHDRAWAL POLICY

25 August – 8 September: You may drop the course without any grade.
9 September – 3 October: You will be permitted to withdraw from the course with an automatic "W" and do not need the instructor's signature to do so.
6 October – 31 October: You may withdraw by asking your instructor to assign you a grade of "W" or "F."
3 November – 12 December: You may withdraw only by direct petition to the Dean of your college.

Academic Misconduct: <http://www.ou.edu/provost/integrity/>
Student Code: <http://www.ou.edu/studentcode/>

SPECIAL ACCOMMODATIONS

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunity. All accommodations will be made at the suggestion of, and with the approval of the Office of Disability Services, 620 Elm, Room 166 <http://www.sa.ou.edu/ods/>.

Homework Problems

(Subject to minor change; due dates to be announced)

1.1 #3, 4, 8, 9, 12, 13, 19, 20, 25, 26, 29, 30, 32, 36, 37, 39, 41-43, 45, 49, 50, 55

1.2 #2, 3, 8-10, 16-19, 24, 27, 28

1.3 #1, 5, 9, 10, 16, 18, 22, 23, 27-30, 32, 33, 36

1.4 #7, 11, 15, 16, 18, 19, 21, 24, 27

1.5 #1, 10, 14, 16, 18, 19, 22

“choosing model” handout (D2L): #5, 6, 9, 10, 14, 17,

2.1 #3, 6, 7, 11, 13, 16, 17, 21, 22, 25-28

2.2 #7, 9, 15, 19, 21-24, 26, 32, 33

2.3 #3-6, 10, 13, 17, 23-25, 27

2.4 #1-4, 7-13, 17, 21, 22

3.1 #4-9, 20, 24, 25, 27, 28

**more practice available online for sections 3.2 – 3.5 in Appendix C (D2L):

3.2 #8, 11, 14, 15, 18, 19-28, 30, 33, 34, 36, 37

3.3 #7, 10, 11, 13, 14, 16, 19, 20, 25, 28, 32-34

3.4 #14, 18, 19, 21, 25, 28, 30, 31, 35, 43, 45, 46,

3.5 #3, 14-18, 21, 22, 24, 28, 31, 32, 38

4.1 #1-4, 13, 21

4.2 #1, 14-16, 19-23, 25, 26, 29, 31-33

4.3 #12-17, 20, 24-26, 28, 29, 32, 35, 39, 40, 45

optimization word problems from handout (D2L): # 3, 4, 7, 8, 12, 13

7.2 # 13, 17, and just find the sine model for #1 and 8

7.3 # 5, 6, 16, 18, 19

7.4 # 4, 14, 15

NB: I reserve the right to add or remove problems from the above list when the assignment due dates are actually announced. It is also possible that additional homework problems could come from supplementary materials which I will provide (i.e. worksheets).