Calculus for Business, Life and Social Sciences I  Fall 2009  
Math 1743-006  MW 3:30-4:45  PHSC 363

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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.

Office Hours:  
My office is located in 1001, but my office hours are held in the math help center on the 4th floor of the Physical Sciences Center in room 425. My hours are as follows:  
Monday: 12:30pm - 1:30pm  
Tuesday: 3:00pm - 4:30pm  
Wednesday: 1:30pm - 2:30pm  
Thursday: 3:00pm - 4:30pm

Each student has individual needs which may not be resolved by simply reading the text book or asking a question in class. Thus, coming to office hours can be very beneficial to students. I can also sometimes answer math questions through email, and email is usually the best way to try and contact me outside of class.

Math Labs:  
If you would like another option for help outside of class, 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.

ATTENDANCE:
You are encouraged and expected to attend every class period. Please let the instructor know in advance if you are unable to attend class.

CLASSWORK
Your classwork grade (i.e. the only part of your grade not comprised of exams) will be taken entirely from weekly quizzes that will be given every Wednesday (unless otherwise stated). The questions on the quizzes will either come directly from homework problems from the previous week of class or from problems worked on the board in class.

At the end of the semester, two quiz grades will be dropped. If you are absent the day of a quiz for any reason (sick, out of town, etc), it will automatically count as one of your dropped quizzes. Consequently, there will be no make-ups of quizzes for any reason. If you have less than two absences at the end of the semester, your lowest quiz grades will be dropped instead.

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 in Dale Hall Room 211.

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 22 September 7:30-8:45 p.m. in Dale Hall Room 211.
Exam II – Tuesday 27 October 7:30-8:45 p.m. in Dale Hall Room 211.
**Exam III – Tuesday 1 December 7:30-8:45 p.m. in Dale Hall Room 211.
Final Exam – Thursday 17 December 7:30-9:30 p.m. in Dale Hall Room 211.

**This exam takes place on the Tuesday after Thanksgiving Break. Even though this may not be a desirable time for an exam, you are expected to make travel plans with this in mind and should be aware that make-ups will not be given for students who are still out of town for the holiday unless there are some other extenuating circumstances.

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 50
Exams 300 (3 x 100)
Final Exam + 200
Course Total 550 points possible.

Important note about grading: grades will not be changed on any quiz or exam unless an error has been made in grading. If you have any questions about how an assignment has been graded, please ask!
Your course grade will be based on a 550 point scale:

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

**HOLIDAYS**

- 7 September: Labor Day
- 16 October: OU/TX Day
- 25 – 29 November: Thanksgiving Holiday

**WITHDRAWAL POLICY**

- 24 August – 8 September: You may drop the course without any grade.
- 9 September – 2 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.
- 5 October – 30 October: You may withdraw by asking your instructor to assign you a grade of "W" or "F."
- 2 November – 11 December: You may withdraw only by direct petition to the Dean of your college.

Academic Misconduct: [http://www.ou.edu/provost/integrity/](http://www.ou.edu/provost/integrity/)

Student Code: [http://www.ou.edu/studentcode/](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 (Goddard), Room 166 [http://drc.ou.edu/](http://drc.ou.edu/).

**Recommendations for this class:**

1. **Always let me know about conflicts ahead of time**, whether it involves class, homework, or an exam. The situation has a better chance of being resolved successfully if you notify me beforehand so we can work out a solution.

2. **Come to class!** In my experience, the #1 reason for a student receiving a low grade in math course like this is poor attendance. We only meet twice a week, and in general we will cover multiple sections in one week. If you miss a class, it is your responsibility to acquire notes, etc. for that day.

3. **Please use proper punctuation and spelling in your emails!**

4. **Please do not be fooled by the 1000-level status of this class**—we will move through topics very fast with little time for review. This is a tough class, and it will require a lot of work from you. Take special care to not fall behind.

5. **Math is hard!** At some point in this course, you will experience difficulty. Either you experience difficulty on the homework assignments and eventually figure out the problems, or you experience difficulty when you take the exams. What sounds better?

6. **Do not be afraid to ask for help!** I will do everything that I can to help you learn math. You have to be willing to put the time in, and ask for help if you need it (come to office hours, ask questions in class, etc)!
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
2.5 **more practice available online for sections 3.2 – 3.5 in Appendix C (D2L or link below):**
http://www.college.cengage.com/mathematics/latorre/calculus_concepts/3e/students/append.html
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).