M408C
Differential and Integral Calculus
Fall 2015 – Unique IDs 52740 and 52745

Instructor:	Dr. Kirk Blazek
Lecture:	MWF 2-3 in PHR 2.108
Office:	RLM 13.140
Email:	blazek@math.utexas.edu
Office Hours:	Monday 10-Noon, Wednesday 10-11
TA:	Logan Stokols
Discussion Sessions:	TTh 8:30-9:30 in CPE 2.206 (Section ID 52740)
	TTh 5-6 in UTC 1.116 (Section ID 52745)
TA Email:	lstokols@math.utexas.edu
TA Office Hours:	Wednesday and Friday from 12-1:30 in Calc Lab

Course Description: The emphasis in this course is on problem solving, not on the presentation of theoretical considerations. The syllabus for M408C includes most of the elementary topics in the theory of real-valued functions of a real variable: limits, continuity, derivatives, maxima and minima, integration, area under a curve, volumes of revolution, trigonometric, logarithmic and exponential functions and techniques of integration.

Quantitative Reasoning Flag: This course may be used to fulfill the mathematics component of the university core curriculum and addresses the following three core objectives established by the Texas Higher Education Coordinating Board: communication skills, critical thinking skills, and empirical and quantitative skills.

Prerequisites: The minimum required score on the Aleks placement exam.

Text: Stewart, *Calculus, Early Transcendentals*, 7th Edition, Brooks/Cole.

Attendance: I will not take attendance, but class participation will be considered in borderline grades.

Homework: Problem sets will generally be assigned once a week on Wednesday. Homework will not be picked up or graded. However, the exam problems will be pulled from the homework, so it is in your best interest to do it.

Exams: There will be three exams given during the semester, in addition to the final exam. The exams will be given on Fridays in lecture, on Sept. 18th, Oct. 16th, and Nov. 13th. The final exam will be on Thursday, December 10th from 2pm-5pm in the usual room. Each exam must be taken with no outside assistance, whether written, electronic, or otherwise.

Makeup Exams: I do not give makeup exams after the class has taken their test, but if you know beforehand you will be unable to be there for an exam, let me know and you may be able to take an alternative exam early. If you miss an exam, you must let me know *immediately* in order to discuss possible arrangements. However, don't expect a whole lot unless you missed the exam due to medical reasons that can be confirmed with a doctor's note.

Resources: There are numerous places you can get additional help on any of the material in this class.

- **Discussion Section:** These are the regular twice-weekly sessions that are part of the schedule for this class. These sections are run by your TA to answer any questions you have about homework or concepts discussed in class.

- **Calculus Lab:** The Mathematics Department is offering students enrolled in calculus courses at UT the chance to receive help and work with classmates in a room that's open five days a week for the afternoon and evening. The lab will be staffed by current mathematics graduate students (including your calculus TA), as well as advanced undergraduate Learning Assistants. Calculus Lab is in WEL 2.228 and is open Monday 11AM to 7PM, Tuesday through Thursday it is open 2PM to 7PM, and Friday it is open from 2PM to 5PM. See more details on the web page http://www.ma.utexas.edu/academics/undergraduate/calculus-lab/
- **Sanger Learning Center:** The Sanger Center (http://www.utexas.edu/ugs/slc) offers drop-in tutoring, tutoring by appointment, and review courses geared toward freshman math classes. In particular, at the beginning of every semester they hold algebra and trigonometry refresher courses if you feel a little rusty on these subjects coming in to calculus.

Grading: The overall grade will be determined by the four exams given throughout the semester.

20%	Exam 1
20%	Exam 2
20%	Exam 3
40%	Final Exam
100%	Total

Curves and "The Bad Day Rule": In general, I do not curve grades unless the class average falls below 70%, but I may curve individual exams or the overall class grades, as either is necessary. Independent of any curving that may happen, if you have an exam that is significantly lower than your other two (i.e., the average of any two exams is 20% higher than your third exam), then I will cut the weight of the lower exam in half, and raise the weights of the other two exams accordingly. This policy does not apply to the final.

Honor Code: The core values of the University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the University is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community.

Students with Disabilities: If you have any disability that requires special accomodations, please contact the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259, http://www.utexas.edu/diversity/ddce/ssd/

Schedule (Subject to Change):

- **Week 1:** 1.5, 1.6
- **Week 2:** 2.1-2.3
  - Last day of add/drop without approval: Monday, August 31
- **Week 3:** 2.4-2.6
- **Week 4:** 2.7-2.8
  - Exam 1, Friday, September 18th
- **Week 5:** 3.1-3.3
- **Week 6:** 3.4-3.6

- **Week 7:** 3.8-3.10
- **Week 8:** 3.11
  - Exam 2, Friday, October 16th
- **Week 9:** 4.1-4.4
- **Week 10:** 4.5, 4.7
- **Week 11:** 4.9, 5.1, 5.2
  - Drop deadline: Tuesday, November 3rd
- **Week 12:** 5.3, 5.4
  - Exam 3, Friday, November 13th
- **Week 13:** 5.5, 6.1, 6.2
- **Week 14:** 6.3, Thanksgiving on the 26th
- **Week 15:** 6.4, 6.5
  - Final Exam Thursday, December 10th, 2pm-5pm