

Math 1351-008 – Calculus I

Kent Pearce

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Office Hours

Tu/Th 1:00-3:00 or
By Appointment

Classroom Lecture

MWF 11:00 MA 108

Web Resources

HomePage: www.math.ttu.edu/~pearce
(Syllabus, Calendar, WebWork,
Home Work, Lecture Summary)

Renke Zhou

Office: MA 242
Phone:
E-Mail: renke.zhou@ttu.edu

Office Hours

To be announced

Discussion Sections

715 T 08:00 MA 010
716 T 17:00 MA 011

Textbook

Strauss, Bradley & Smith, *Calculus*, 4th Ed.,
Prentice Hall, Chapters 1-5

Learning Objectives

Students will become proficient in techniques of differentiation. Students will understand the concept of rate of change and how to use it to solve real world problems. Students will understand the concept of definite and indefinite integral and their relations to area and rate of change. In particular the students will:

1. Understand the concept of continuous functions
2. Understand the concept of instantaneous rate of change
3. Be able to compute derivatives of polynomial and transcendental functions
4. Be able to use differentiation to solve related rate and optimization problems
5. Understand the concept of definite and indefinite integrals

Assessment of the learning outcomes

Assessment will be achieved through one or more activities, non-graded and graded, such as: class attendance, discussion section attendance, class discussion, board work, short quizzes, selected homework, examinations and other optional activities deemed appropriate by the instructor. Class grades will be assigned according to the following rubric:

Grades

HomeWork	11 assignments - Paper Exercises - Drop Lowest; Due in Box Outside MA 242 Due Various Thursdays/Tuesdays at 5:00 pm – Dates: See Calendar http://www.math.ttu.edu/~pearce/courses/1351-20072(008)-hwk.shtml	100 pts
WebWork	12 assignments - On-line Exercises - Drop Lowest Due Various Wednesdays/Fridays at 11:00 pm – Dates: See Calendar http://webwork.math.ttu.edu/webwork2/kp07sprm1351/	100 pts
Examinations	3 mid-term examinations, no make-up examinations Wed. Feb 7, Fri. Mar 2, Wed. Apr 4	300 pts
Final Exam	Comprehensive, Thursday, May 3, 10:30 am - 1:00 pm	<u>200</u> pts
Total		700 pts

Grading Scale (Base 700 pts)

A...100% - 90% B...89% - 80% C...79% - 70% D...69% - 60% F...59% - 0%

Attendance in Discussion Sections

Daily engagement in problem-solving activities is critical to success in Calculus I. To enhance this facet of your experience in Calculus I, three problem-solving components have been added to the class format and structure. Two of them are mentioned above (HomeWork and WebWork). The third problem-solving component is the mandatory Discussion Section. The format and structure of the Discussion Section will be: (1) presentations of additional problems by the teaching assistant; (2) problem question and answer sessions; (3) group work sessions on problem work sheets.

Because this style of student engagement forms a critical part of the Calculus I learning experience, attendance at the Discussion Section will be monitored and recorded. Consequences of missed attendance at the discussion sections will be:

Missed attendance of three (3) discussion sections will result in a letter grade drop.

Missed attendance of five (5) discussion sections will result in a two letter grade drop.

Missed attendance of seven (7) discussion sections will result in a three letter grade drop.

Review Sessions for Examinations

Tue. Feb 6, 7:00 pm; Thu. Mar 1, 7:00 pm; Tue Apr 3, 7:00 pm

Critical Dates

Wednesday, Mar 7, 2007 - Mid-semester grades due

Wednesday, Mar 21, 2007 - Last day to drop a course

Monday, April 30, 2007 - Last day of class

Thursday, May 3, 2007 - Comprehensive Final Exam (10:30 - 1:00)

Notices

Academic Integrity (Extracted from [OP 34.12](#))

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

Observance of Religious Holiday (Extracted from [OP 34.19](#))

A student who intends to observe a religious holy day should make that intention known to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

Accommodation for Students with Disabilities (Extracted from [OP 34.22](#))

Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor (at MA 201-B) as soon as possible to make the necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until the appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office at 335 West Hall or 806-742-2405.