Math 1351-008 – Calculus I

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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)

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 200 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 is a letter grade drop.
Missed attendance of five (5) discussion sections will result is 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 it 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.