Professor: Victoria Howle, Ph.D.
Office: MA 224
Email: victoria.howle@ttu.edu
Phone: 742-2580 ext.264
Office Hours: TBA

Classroom Lecture and Discussion: Monday 3:00 - 4:50
Wednesday and Friday 3:00 - 3:50

TA: TBA
The TA will handle **all** emails related to WebWork assignments. He will hold office hours (TBD) to help with WebWork, Homework, or other questions. (The "Email my instructor" button on webwork automatically sends your question to the TA.)

Course web page:
www.math.ttu.edu/∼vhowle/Courses/2012Spring_Math1451/Math1451.html
The course web page contains this syllabus, assignments, important announcements, solution sets, etc.. ***Check the course web page frequently.***

Text (required): CALCULUS, 5th Edition by Strauss/Bradley/Smith,
Student Mathematics Handbook and Integral Table, Student Survival Guide and Solutions Manual

Course Outline: Math 1451 covers chapters 1 through 5 of the Strauss/Bradley/Smith textbook. With a very few exceptions that will be noted in class, we cover all of the material in these chapters.

Note that this is a very fast-paced course. I will work examples as much as possible in class, but you must do the homework and many more practice problems if you hope to do well in the course. ***To follow the lectures adequately and learn the material, you should read the relevant sections in the textbook and work many more problems than just those assigned for a grade.***

Learning Objectives: It is expected that students will become proficient in techniques of differentiation, understand the concept of rate of change and hwo to use it to solve real world problems, the concept of definite and indefinite integrals and their relations to area and rate of change. In particular, the students will:

Be able to explain the concept of continuous functions

Compute instantaneous rate of change

Compute derivatives of polynomial, algebraic, and transcendental functions

Use differentiation to solve related rate and optimization problems

Compute definite and indefinite integrals

Apply specific concepts to problems from the real world, including other sciences

Prerequisites: C or better in Math 1350 or 1550; or 7 on MPE; or B or better in 1321; or C in 1321 with 5 on MPE; or 660 on SATM; or 29 on ACTM; or 3 on AP AB Calculus with 5 on MPE.

Methods of Assessment of Learning Outcomes: Assessment will be achieved through one or more activities, non-graded and graded, such as: class attendance, quizzes, webwork, homework, examinations and other optional activities deemed appropriate by the instructor.

Course grades will be determined as follows:

WebWork	Online homework	10%
Written Homework	Weekly written assignments	10%
Examinations	5 in-class examinations: Exam dates: Exam 1 — Friday 2/3/2012, Exam 2 — Friday 2/17/2012, Exam 3 — Friday 3/7/2012, Exam 4 — Friday 4/13/2012, Exam 5 — Monday 4/30/2012	50%
Final Exam*	Comprehensive common final exam Thursday, May 10, 2012, 10:30 – 1:00	30%

***You must pass the final exam in order to pass the course.**

Grading Scale: A = 100%–90%, B = 89%–80%, C = 79%–70%, D = 69%–60%, F = 59%–0%.

No make-up assignments. If you have a legitimate documented excuse, I will drop the assignment from your grade (in the case of homework) or replace the grade with your final exam grade (in the case of in-class exams). Note that "I already bought plane tickets" is not considered a legitimate excuse. In general though, I am more willing to work with you on conflicts if you talk to me well ahead of time.

Attendance: Attendance is required. I reserve the right to have unannounced quizzes at any time. Any such quizzes will be included in your homework grade.

Calculators: Calculators are **not** allowed on quizzes, in-class exams, or the final exam.

WebWork Policy: WebWork is submitted online and will have a specific due date and time. Once the deadline has passed, the WebWork system will not accept your assignment. No late WebWork will be accepted. I will drop WebWork assignments missed with prior approval or a legitimate documented excuse.

Written Homework Policy: Homework is due **in class** on the day specified. Each submitted assignment should meet the following criteria:

- Your work should be written on standard letter-size ($8\frac{1}{2} \times 11$) loose-leaf printer, lined, or graph paper. (No torn out spiral notebook pages; no odd sized pages).
- Write only on one side of the paper and don't try to cram too many problems onto the same page. If you are worried about trees, use recycled paper.

- Each assignment will have a cover page with the questions. This cover page must be attached as the first page of your assignment.
- You must write your name and R number on all assignments. For homework, right them on the cover page. (I recommend writing your name on all pages though, just in case they get separated.)
- Your assignment must be stapled in the upper left-hand corner.
- Show all relevant work in your solutions. *You will not receive credit simply for having the right answer.* Your job on homework problems (and on exams) is to explain your reasoning and make it clear that you understand how to do the problem. Don't assume that I can read your mind. I promise I can't.
- Your writing should be easy to read and your logic should be easy to follow. Do not turn in your first draft of the problems. For most problems, it is a very good idea to work them out first on scratch paper where you can figure out the answer and how best to present it. Once that's done, copy your solutions neatly for submission.

Assignments that do not meet the above criteria will be penalized 5% for each infraction. For example, if you turn in homework that is not stapled and is missing the cover sheet, the highest score you can get on that assignment is a 90%.

Written homework is due in class at the beginning of class. I will generally try to post homework solutions the evening of the same day that homework was due. Once the solutions have been posted, I will not accept further late homework from that assignment.

Regrade requests: graded assignments (homework and exams) are graded by several different graders. If you wish to dispute a specific grade, you must use the following procedure:

1. Read through posted solutions and make sure you still believe that your solution was correct.
2. Fill out the Regrade Request Form (coming soon) explaining clearly which problem(s) you would like reviewed and why you believe that the grading is incorrect.
3. Staple the Regrade Request Form to the front of the assignment.
4. Submit the regrade request to me in class, during office hours, or put it in my mailbox in the math department office - Math 201. (If you put it in my mailbox, touch base with me in person or by email to make sure I received it.)

There are no extra-credit assignments in this course. I may occasionally include a "bonus problem" on in-class exams or give an unannounced bonus quiz in class, but otherwhere, there is no extra credit. No magic is going to happen at the end of the semester where you can make up missing points or redo test. To improve your grade, your time is better spent studying and working more problems for the remaining assignments and exams.

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.

Civility in the Classroom: Please be considerate of others. Be respectful to me, to the TA, and to your fellow students. Turn off cellphones, and other electronics (anything that makes noise). Don't hold side conversations during class. If you must come in late or leave early, do so as quietly as possible. Note that if you arrive late or leave early you may miss critical information or graded quizzes.

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 (in MA 217) 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.