Math 1225 Calculus of a Single Variable I (Fall 2015, CRN: 84450)
MWF 9:05-9:55am Major Williams 334
T 9:30-10:20am McBryde 308

General Information:

- **Instructor:** Jing Cui
- **Email:** jcui85@vt.edu
- **Office Location:** McBryde Hall 407B
- **Office Hours:** MW 11:15am-12:15pm, TR 1:00pm-2:00pm or by appointment
- **Course Homepage:** www.math.vt.edu/courses/math1225
- **WebAssign:** http://www.webassign.net/

**Course Materials:** We will be using *Calculus: Early Transcendentals*, 8th edition, by Stewart. The Mathematics Department has recently changed textbooks, so you cannot use a textbook from a previous calculus course at Tech. We will be using the online homework system WebAssign, so you will need to at least buy the digital version of the text for this course.

**Course Content:** Functions, limits, continuity, graphs, rates of change, derivatives, optimization, integration.

**Prerequisites:** To enroll in 1225 you must have one of the following

- A grade of B or better in Math 1014, 1015, 1016, 1025 or 1536.
- Two units of high school algebra, one unit of geometry, 1/2 unit each of trigonometry and pre-calculus AND placement by the Mathematics Department.
- A passing grade in the Calculus Readiness Exam.

**Educational Objectives:** Differential Calculus is the study of rates of change. Integral Calculus is the study of accumulation of change. You will learn how to find the rate of change of one quantity as a second quantity varies. You will also learn to answer questions about changing quantities.

**Math Emporium and Tutoring:** The staff in the tutoring lab at the Math Emporium will be able to assist you with your questions. Since this course is not an Emporium course, it is not appropriate to approach the floor staff in the general area with your questions about Math 1225. The tutoring lab is open 4:30pm to 9:30pm Sunday through Thursday. Also, you may hire a private tutor by sending an email to math_tutors-g@vt.edu indicating your specific needs.
**Communication:** Notices and updates about this class will be sent to your official Virginia Tech email account. You are responsible for checking this account daily.

**Grade Policy:**

- **WebAssign Quizzes:** 12%
- **Homework Assignments:** 15%
- **Mid-Term Exams:** 48% (4@12% each, all free response)
- **Final Exam:** 20% (10% multiple choice, 10% free response)
- **MATLAB Assignments and In-class Quizzes:** 5%

A 90% will guarantee an A-, 80% a B-, 70% a C-, 60% a D-. Plus and minus grades will be assigned at the instructor’s discretion.

- **WebAssign Quizzes:** There will be twice a week online quizzes. Mostly they are due on Monday and Thursday, regardless of your class meeting times. You can access to WebAssign to check the due date and submit the quizzes. You will have two attempts at each quiz, and the higher of your two grades will be used. I will drop your lowest four quiz grades.

- **Homework Assignments:** Homework Assignments include written assignments and webassign problems. I will assign homework on every day’s material and collect it once a week. You are encouraged to study together on homework assignments; however the final work must be your own. I will only accept written assignments that are stapled together, neatly written or typed, with your name on every page. No late assignments will be accepted. I will drop the lowest homework grade.

- **Common-time Exams:** There will be four common time exams and a common time final exam. The locations for the exams will be announced on the Math 1225 web page. Typically, they will not be the same as your lecture class. If it is to your benefit, your grade on the free response section of the final exam will replace your lowest test grade.

  You must take tests on the specified date. If you have a verified conflict with the time scheduled for an exam, an alternative starting time for the exam on the same evening will be provided. Usually, makeup exams will not be given. If a student misses an exam for reasons that are serious, unavoidable, and beyond the student’s control, the situation will be handled on an individual basis. When possible, the student should notify the instructor before missing the work.

  The final exam is a required class meeting that will not be rescheduled for discretionary reasons, including conflicts with work schedules, conflicts with classes and exams at other colleges, and travel plans.

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<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>Wednesday September 16</td>
<td>7:00-8:00pm</td>
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<tr>
<td>Exam 2</td>
<td>Wednesday October 14</td>
<td>7:00-8:00pm</td>
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<td>Exam 3</td>
<td>Wednesday November 4</td>
<td>7:00-8:00pm</td>
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<tr>
<td>Exam 4</td>
<td>Wednesday December 2</td>
<td>7:00-8:00pm</td>
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<tr>
<td>Final Exam</td>
<td>Friday December 11</td>
<td>4:25-6:25pm</td>
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- **MATLAB Assignments and In-class Quizzes:** There are three MATLAB assignments that will be collected during the semester. Several announced or unannounced in-class quizzes will be given throughout the semester. There will be no make up quizzes.

- **Attendance:** Class attendance will be taken daily and kept for Mathematics Department records. Students are responsible for course materials and announcements covered in class.
- **Grading Appeals**: If you believe that an error has been made in grading an assignment or test, please re-examine the problem as well as the solution and contact me the next day. Any concern should be brought to my attention within one week of the graded work being returned.

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**Honor Policy**: All assignments, tests, and quizzes submitted will be considered graded work and must be completed on an individual basis. Homework may be discussed with other students as well as with the instructor. However, in writing up an assignment to be handed in, each student works alone (without other students or other students papers) and certifies that what is written accurately represents the students own understanding of the material expressed in the students own words. In working, or in preparing to work, homework problems, students may not consult partial or complete solutions of the problems that have been prepared by anyone else. The prohibited solutions include, but are not limited to, solutions by current or former teachers or students at VT or elsewhere, whether these solutions are posted on the web or available from other sources. The honor code applies to all graded work in this course. If you have any questions about how the honor code applies to a particular situation, it is your responsibility to ask.

**Caution**: If you are not on the class roll that comes out after the last “add” date, you are not in the class. It is your responsibility to make sure you are attending the proper section. For no foreseeable reason (computer and/or registrar personnel mistakes included) will you be allowed to stay in the wrong section. Your work will not be graded. Simply attending a section will NOT entitle you to be placed on its roll.

**Disabilities**: If you need adaptations or accommodations because of a documented disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.