MATH 1225 CALCULUS OF A SINGLE VARIABLE I
FALL 2015  (4 credit hours)

MWF 12:20PM-1:10PM WILLIAMS 334. THUR 12:30PM-1:20PM MCB 321.

INSTRUCTOR: EUN CHANG
E-MAIL: changer@vt.edu
OFFICE: MCB 443
PHONE: (540)231-8006
OFFICE HOURS: WED/FRI  10:00AM – 12:00PM
THUR  8:20AM – 9:20AM
OR  BY APPOINTMENT

COURSE WEBSITE:
http://www.math.vt.edu/courses/math1225/

COURSE CONTENT:
Functions, limits, continuity, graphs, rates of change, derivatives, optimization, and integration.
The course will follow the 1225 syllabus on the course website and Scholar.

PREREQUISITES: To enroll in 1225 you must have one of the following:
1. A grade of B or better in Math 1014, 1015, 1016, 1025, or 1536.
2. Two units of high school algebra, one unit of geometry, 1/2 unit each of trigonometry and pre-calculus, & placement by the Mathematics Department.
3. A passing grade on 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 and the rate of change of one quantity as a second quantity varies. You will also learn to answer questions about changing quantities.

COURSE MATERIALS/REQUIREMENTS/ REQUIRED TEXT:
The Mathematics Department has recently changed textbooks, and this is a new edition for this year. Make sure you have the correct edition. 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.

MATH EMPORIUM & MORE TUTORING:
- The tutoring lab is open 4:30pm to 9:30pm Sunday through Thursday.
- The Student Success Center offers individual tutoring by appointment for many subjects.
- Information about private tutoring can be found here.
EVALUATION: Final grades are determined as follows:

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<tr>
<th>COURSE GRADING:</th>
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<tr>
<td>4 Exams:</td>
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<tr>
<td>WebAssign Quizzes</td>
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<tr>
<td>Homework/MATLAB</td>
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<tr>
<td>In-Class Pop Quizzes</td>
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<tr>
<td>Final Exam</td>
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48% 12% 15% 5% 20%

Final course grades will be assigned as follows: 90% guarantees at least an A-, 80% guarantees at least a B-, 70% guarantees at least a C-, and 60% guarantees at least a D-. The instructor reserves the right to revise the grading criteria as appropriate and will make reasonable attempts to notify students as time permits.

TEST DATES:

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>
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<th>Test dates</th>
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<tr>
<td>Test</td>
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<tr>
<td>Date</td>
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<td>Duration</td>
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<tr>
<td>Test 1:</td>
</tr>
<tr>
<td>Wed, Sep 16. 7pm</td>
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<td>1 hour</td>
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<td>Test 2:</td>
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<td>Wed, Oct 14. 7pm</td>
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<td>1 hour</td>
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<td>Test 3:</td>
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<td>Wed, Nov 4. 7pm</td>
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<td>1 hour</td>
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<td>Test 4:</td>
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<td>Wed, Dec 2. 7pm</td>
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<td>1 hour</td>
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<td>Final Exam:</td>
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<td>Fri, Dec 11, 4:25pm</td>
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<td>2 hours</td>
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WEBASSIGN QUIZZES AND POP-QUIZZES:

- There will be twice a week online WebAssign 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 WebAssign quiz grades.
- I will drop one lowest pop-quiz grade.
- NO MAKE-UP POP-QUIZ WILL BE GIVEN.
HOMEWORK:
Homework will be collected in the first lecture class of the week. Each week's problems are listed with the syllabus.
Homework will be checked for completeness, work shown and correctness

GRADING HOMEWORK ASSIGNMENTS:
0 points: Few problems attempted and / or correct, little or no work shown.
5 points: All problems attempted.
5 points: Two problems will be graded.
- NO LATE HW WILL BE ACCEPTED!
- Your 2 lowest homework assignments will be dropped.

HONOR SYSTEM
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 and certifies that what is written accurately represents the student’s own understanding of the material expressed in the student’s 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.

AMERICANS WITH DISABILITIES ACT (ADA):
In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, if you have a disability or think you have a disability, we ask that you please contact the Disability Service office.
Location:
Lavery Hall, STE 310, Virginia Tech. 430 Old Turner Street. Blacksburg, VA 24061
Telephone: 540-231-3788. Email: ssd@vt.edu

CLASSROOM COURTESY:
You and your classmates are entitled to learn in an atmosphere of mutual respect and freedom from distractions and disturbances.
- Students are expected to arrive on time and stay until class is dismissed.
- Talking to classmates during class, aside from group assignments, is disruptive to those around you. If you engage in such behavior, I may ask you to leave.
- Laptops used as a tablet PC are permitted provided they are used in the flat-on-the-desk position. Open laptops are not allowed.
- **Cell phones must be turned off before you enter the classroom.**

OTHER IMPORTANT DATES:

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<th>Date</th>
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<tr>
<td>Aug 24</td>
<td>Classes Begin</td>
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<tr>
<td>Sep 7</td>
<td>Labor Day (No Classes; university offices closed)</td>
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<tr>
<td>Oct 16</td>
<td>Fall Break Begins (No Classes; university offices open)</td>
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<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>Oct 18</td>
<td>Fall Break Ends</td>
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<tr>
<td>Nov 21</td>
<td>Thanksgiving Holiday Begins</td>
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<td>Nov 29</td>
<td>Thanksgiving Holiday Ends</td>
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<tr>
<td>Dec 9</td>
<td>Classes End</td>
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<td>Dec 10</td>
<td>Reading Day</td>
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<tr>
<td>Dec 11</td>
<td>Exams Begin</td>
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<tr>
<td>Dec 17</td>
<td>Exams End</td>
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<tr>
<td>Dec 18</td>
<td>University and Graduate Ceremonies</td>
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YOU ARE RESPONSIBLE FOR MISSED CLASSES AND ANNOUNCEMENTS.