

Math 172 Calculus I, Fall 2013  
Bouillon 101 8:00 to 8:50

Instructor: Thad O'Dell  
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office hours: M – Th 9:00 to 10:30

A graphing Calculator is required for this class. I will be using a TI-84, which is very similar to the TI-83.

The required Textbook is "Calculus; Single and Multivariable 6<sup>th</sup> ed." By Hughes-Hallett, Bleason, McCallum et al.

**Goal of this course:** This course is an introduction to differential calculus. After passing this class, you should be able to understand the concepts of limits, continuity and differentiation. You will learn how to calculate limits, what it means for a function to be continuous and the important properties of continuous functions. For differentiation, you will learn the definition (using limits), as well as various rules for computing derivatives: the product, quotient, and chain rules. We will also cover formulas for derivatives of the elementary functions. In addition, we will learn the various interpretations of the derivative: geometric, physical and as a rate of change. Finally, we will use these interpretations to solve various applied problems such as determining the shape of graphs, related rates and maximizing or minimizing functions. You also will have developed perseverance in solving problems that initially do not just roll over and cower before you're superior intellect.

### **Grades**

Grades will be calculated based on the following percentages:

Three midterm Exams: 35%

Weekly quizzes: 30%

Weekly Homework: 10%

Final comprehensive Exam: 25%

**Exams:** Make-up exams for the midterms will be at my discretion, and must be requested before or in extreme emergencies within 24 hours after the exam. They will only be given if you have evidence of a compelling reason for missing the exam. The **Final exam is Thurs, Dec 12, 8:00 to 10:00**. It must be taken at this time, no exceptions.

**Quizzes:** Quizzes will be given on a regular basis with or without advanced warning. No makeup quizzes will be given. However, I will drop your lowest quiz score. Some quizzes will be in class and others will be take home.

**Homework:** There will be two types of homework for this class. The first type consists of problems from the book and will be assigned at the end of each class. You are strongly encouraged to do these problems before attempting the other type of homework. These book problems will not be handed in or graded. The second type of homework will consist of assignments using the online homework system WebWork. Problems will be assigned daily or at the end of each section. All assignments on WebWork will have a clearly indicated due date. WebWork can be accessed from any computer with an internet connection and a web browser. The link to the login page for the course is [webwork.math.cwu.edu/webwork2/math172odell/](http://webwork.math.cwu.edu/webwork2/math172odell/) It is posted on Blackboard as well. Be sure to use this link (not Google)! WebWork scores the homework sets based on the number of problems completed correctly by the time the assignment is due. Late submissions will not be accepted, however, your lowest weekly homework score will be dropped.

**General Course Policies:**

Daily attendance is expected and considered necessary for success. It is your responsibility to find out what was covered on days you were absent. You are responsible for any announcements made in class regarding homework, exams, and quizzes. Handouts from class will be posted on Blackboard. In-class worksheets will be given from time to time and will be factored into your quiz grade.

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Center for Disability Services as soon as possible so we can discuss how the approved adjustments will be implemented in class. Students without this form should contact the Center for Disability Services, Bouillon 205 or [dssrecept@cwu.edu](mailto:dssrecept@cwu.edu) or 963-2171.

I reserve the right to change the policies contained in this syllabus as dictated by developments during the quarter.