

Cedar Crest College  
Calculus I - MAT 141 01 2  
Fall 2009  
MWF 10:00am - 10:50am CUR 206  
R 2:30am - 3:20am CUR 206

Professor: Dr. Michael Sarver  
Office: Curtis 219

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Office Hours  
Monday, Wednesday 9:00 a.m. - 9:50 a.m., 11:00am - 11:50am  
Friday 9:00 a.m. - 9:50 a.m.  
Thursday 3:30-4:20pm  
Additional office hours are available by appointment.

**Required Text:**

Stewart ,Calculus, 6th ed., Thomson, © 2008

**Course Description:**

In this course we will be dealing with the differential calculus. This branch of calculus developed as mathematicians attempted to answer the following: Question: Given a curve in the plane and a point on the curve, can we find the slope of the line tangent to the curve at the point? This question will underlie much of what we do in this course.

**Course Outcomes:**

- Understand the concept of a limit
- Compute limits numerically and algebraically
- Understand the definition of the derivative of a function.
- Compute derivatives using the power rule, sum rule, difference rule, product rule, quotient rule, chain rule, and rules for trigonometric functions.
- Apply the derivative in various ways, including the derivative as a rate of change, the derivative as a tool for graphing, and the derivative as a tool for finding optimum solutions to real world problems.

**Assessment:**

There will be four exams each accounting for 20% of your final average. The remaining 20% will consist of short quizzes.

The grade scale that I will use to assign final grades is A [93-100], A- [90-93), B+ [87-90), B [83-87), B- [80-83), C+ [77-80), C [73-77), C- [70-73), D+ [67-70), D [60-67), F [0-60).

Attendance in class is expected of all students and mandatory on exam days, but it will not be factored numerically into your grade. Make-up exams will be given only with prior notification and documentation of a legitimate excuse. There are **no** makeups for missed quizzes.

**Notes**

- I fully support the Cedar Crest College Honor Code and the Classroom Protocol code as stated in the Customs Book. Appropriate classroom behavior is implicit in the Cedar Crest College Honor Code. Such behavior is defined and guided by complete protection for the rights of all students and faculty to a courteous, respectful classroom environment. That environment is free from distractions such as late arrivals, early departures, inappropriate conversations and any other behaviors that might disrupt instruction and/or compromise students' access to their Cedar Crest College education.
- Students should not make any travel arrangements for the end of the semester until after the final exam schedule is published.
- Cell phones should be turned off/on vibrate for the duration of the class period.

- Collaboration on daily homework is expected and encouraged, but any work turned in for a grade should be your own. Violations of the college plagiarism policy will be reported to the dean and result in a grade of zero for the particular assignment / exam.
- It is vitally important for you to keep current with the work. Students who fall behind early quickly find themselves in a hole that is very difficult, if not impossible, to get out of. I'm more than willing to meet with you during my office hours or otherwise to help you succeed, but you must make the effort. Feel free to drop by my office, even if it's not my scheduled office hour.
- The format of the course will be lecture/discussion with much emphasis on homework discussion. In order for this to work it is vitally important for you to come to class prepared.
- It will be beneficial for you to have read the day's material before coming to class.
- Students with documented disabilities who may need academic accommodations should discuss these needs with me during the first two weeks of class. Any student who wishes to request accommodations should contact the Advising Center.

### Tentative Schedule

Day	Date	Sections
Monday	Aug 24	1.1
Wednesday	Aug 26	1.1,1.2
Thursday	Aug 27	1.3
Friday	Aug 28	1.4
Monday	Aug 31	<i>Quiz #1</i>
Wednesday	Sep 02	Appendix D
Thursday	Sep 03	<b>Exam #1</b>
Friday	Sep 04	2.1
Monday	Sep 07	<b>Labor Day</b>
Wednesday	Sep 09	2.2
Thursday	Sep 10	2.2
Friday	Sep 11	2.3
Monday	Sep 14	2.3
Wednesday	Sep 16	2.5
Thursday	Sep 17	<i>Quiz #2</i>
Friday	Sep 18	3.1
Monday	Sep 21	3.1
Wednesday	Sep 23	3.2
Thursday	Sep 24	<i>Quiz #3</i>
Friday	Sep 25	3.2
Monday	Sep 28	3.3
Wednesday	Sep 30	3.3
Thursday	Oct 01	<i>Quiz #4</i>
Friday	Oct 02	3.4
Monday	Oct 05	3.4
Wednesday	Oct 07	<i>Review</i>
Thursday	Oct 08	<b>Exam #2</b>
Friday	Oct 09	3.5
Monday	Oct 12	<b>Fall Break</b>
Wednesday	Oct 14	3.6
Thursday	Oct 15	3.6
Friday	Oct 16	3.7
Monday	Oct 19	3.8
Wednesday	Oct 21	<i>Quiz #5</i>
Thursday	Oct 22	3.8
Friday	Oct 23	<b>President's Inauguration</b>
Monday	Oct 26	3.9
Wednesday	Oct 28	<i>Review</i>
Thursday	Oct 29	<b>Exam #3</b>
Friday	Oct 30	4.1
Monday	Nov 02	4.1
Wednesday	Nov 04	<i>Quiz #6</i>
Thursday	Nov 05	4.2
Friday	Nov 06	4.2
Monday	Nov 09	4.3
Wednesday	Nov 11	<i>Quiz #7</i>
Thursday	Nov 12	4.3
Friday	Nov 13	4.4
Monday	Nov 16	4.4
Wednesday	Nov 18	<i>Quiz #8</i>
Thursday	Nov 19	4.5
Friday	Nov 20	4.7

### **Tentative Schedule**

Monday	Nov 23	4.7
Wednesday	Nov 25	<b>Thanksgiving</b>
Thursday	Nov 26	<b>Thanksgiving</b>
Friday	Nov 27	<b>Thanksgiving</b>
Monday	Nov 30	4.8
Wednesday	Dec 02	4.9
Thursday	Dec 03	<i>Quiz #9</i>
Friday	Dec 04	4.9
Monday	Dec 07	<i>Review</i>
Tuesday	Dec 08	<i>Review</i>
TBA	TBA	<b><i>Exam #4</i></b>