

Cedar Crest College
Calculus I - MAT 141 00 2
Fall 2008
MWF 8:00am - 8:50am CUR 206
T 2:30pm-3:20pm OBC 1

Professor: Dr. Michael Sarver
Office: Curtis 219

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Office Hours

Monday, Wednesday, Friday 9:00 a.m. - 9:50 a.m.
Tuesday 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 and up), 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(Below 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 25	1.1
Tuesday	Aug 26	1.1,1.2
Wednesday	Aug 27	1.3
Friday	Aug 29	1.4
Monday	Sep 01	Labor Day
Tuesday	Sep 02	<i>Quiz #1</i>
Wednesday	Sep 03	Appendix D
Friday	Sep 05	2.1
Monday	Sep 08	<i>Review</i>
Tuesday	Sep 09	Exam #1
Wednesday	Sep 10	2.2
Friday	Sep 12	2.2
Monday	Sep 15	2.3
Tuesday	Sep 16	<i>Quiz #2</i>
Wednesday	Sep 17	2.3
Friday	Sep 19	2.5
Monday	Sep 22	3.1
Tuesday	Sep 23	<i>Quiz #3</i>
Wednesday	Sep 24	3.1
Friday	Sep 26	3.2
Monday	Sep 29	3.2
Tuesday	Sep 30	<i>Quiz #4</i>
Wednesday	Oct 01	3.3
Friday	Oct 03	3.3
Monday	Oct 06	<i>Review</i>
Tuesday	Oct 07	Exam #2
Wednesday	Oct 08	3.4
Friday	Oct 10	3.4
Monday	Oct 13	Fall Break
Tuesday	Oct 14	Fall Break
Wednesday	Oct 15	3.5
Friday	Oct 17	3.6
Monday	Oct 20	3.6
Tuesday	Oct 21	<i>Quiz #5</i>
Wednesday	Oct 22	3.7
Friday	Oct 24	3.8
Monday	Oct 27	<i>Review</i>
Tuesday	Oct 28	Exam #3
Wednesday	Oct 29	3.8
Friday	Oct 31	3.9
Monday	Nov 03	4.1
Tuesday	Nov 04	<i>Quiz #6</i>
Wednesday	Nov 05	4.1
Friday	Nov 07	4.2
Monday	Nov 10	4.2
Tuesday	Nov 11	<i>Quiz #7</i>
Wednesday	Nov 12	4.3
Friday	Nov 14	4.3
Monday	Nov 17	4.4
Tuesday	Nov 18	<i>Quiz #8</i>
Wednesday	Nov 19	4.4
Friday	Nov 21	4.5

Tentative Schedule

Monday	Nov 24	4.7
Tuesday	Nov 25	<i>Quiz #9</i>
Wednesday	Nov 26	Thanksgiving
Friday	Nov 28	Thanksgiving
Monday	Dec 01	4.7
Tuesday	Dec 02	<i>Quiz #10</i>
Wednesday	Dec 03	4.8
Friday	Dec 05	4.9
Monday	Dec 08	<i>Review</i>
TBA	TBA	<i>Exam #4</i>