

Cedar Crest College
Calculus I - MAT 141 01 2
Spring 2009
MTWF 12:00 pm-12:50 pm, CUR 206

Professor: Dr. Michael Sarver
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Office Hours

Monday, Wednesday, Friday

9:00 a.m. - 9:50 a.m.

11:00 a.m. - 11:50 a.m.

Additional office hours are available by appointment.

Required Text:

Stewart, Single Variable Calculus, 6th ed., Thomson-Brooks/Cole, 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

Date	Sections
Jan 19	1.1
Jan 20	1.1,1.2
Jan 21	1.3
Jan 23	1.4
Jan 26	Appendix D
Jan 27	Quiz #1
Jan 28	2.1
Jan 30	2.2
Feb 02	2.2/2.3
Feb 03	Quiz #2
Feb 04	2.3
Feb 06	2.5
Feb 09	Review
Feb 10	Exam #1
Feb 11	3.1
Feb 13	3.1
Feb 16	3.2
Feb 17	Quiz #3
Feb 18	3.2
Feb 20	3.3
Feb 23	3.3
Feb 24	Quiz #4
Feb 25	3.4
Feb 27	3.4
Mar 02	Review
Mar 03	Exam #2
Mar 04	3.5
Mar 06	3.5
Mar 09	Spring Break
Mar 10	Spring Break
Mar 11	Spring Break
Mar 13	Spring Break
Mar 16	3.6
Mar 17	Quiz #5
Mar 18	3.6
Mar 20	3.7
Mar 23	3.7
Mar 24	Quiz #6
Mar 25	3.8
Mar 27	3.8
Mar 30	3.9
Mar 31	Quiz #7
Apr 01	3.9
Apr 03	4.1
Apr 06	Review
Apr 07	Exam #3
Apr 08	4.1
Apr 10	No Class

Tentative Schedule

Apr 13	No Class
Apr 14	4.2
Apr 15	4.2
Apr 17	4.3
Apr 20	4.3
Apr 21	Quiz #8
Apr 22	4.4
Apr 24	4.5
Apr 27	4.7
Apr 28	Quiz #9
Apr 29	4.7
May 01	4.8
May 04	4.9
May 05	Review
TBA	Final Exam