

Cedar Crest College
Calculus II - MAT 142 01 2
Spring 2010
MWF 10:00 am-10:50 am, CUR 206
R 2:30 pm-3:20 pm, CUR 206

Professor: Dr. Michael Sarver
Office: Curtis 219

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Office Hours

Monday, Wednesday, Friday 9:00 a.m. - 9:50 a.m.
Monday, Wednesday 1:00 p.m. - 3:00 p.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 Integral calculus. This branch of calculus developed as mathematicians attempted to answer the following:

Question: Given a region in the plane, can we find its area?

This question will underlie much of what we do in this course.

Course Outcomes:

Upon successful completion of the course the student should be able to

- ★ Demonstrate her understanding of the definite integral
- ★ Evaluate definite integrals numerically and analytically using the fundamental theorem.
- ★ Apply the techniques of Calculus I to exponential, logarithmic, and inverse trigonometric functions.
- ★ Compute antiderivatives using the techniques of substitution, integration by parts, integration by partial fractions, and other such techniques.
- ★ Apply the definite integral in various ways, including the integral as an area, and volumes of revolution.

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 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	Day	Sections
Jan 20	Wednesday	Appendix E
Jan 21	Thursday	5.1
Jan 22	Friday	5.1/5.2
Jan 25	Monday	5.2
Jan 27	Wednesday	5.3
Jan 28	Thursday	<i>Quiz #1</i>
Jan 29	Friday	5.3
Feb 01	Monday	5.4
Feb 03	Wednesday	5.5
Feb 04	Thursday	<i>Quiz #2</i>
Feb 05	Friday	5.5
Feb 08	Monday	6.1
Feb 10	Wednesday	Review
Feb 11	Thursday	Exam #1
Feb 12	Friday	6.1
Feb 15	Monday	6.2
Feb 17	Wednesday	6.2
Feb 18	Thursday	<i>Quiz #3</i>
Feb 19	Friday	6.4
Feb 22	Monday	6.5
Feb 24	Wednesday	Review
Feb 25	Thursday	Exam #2
Feb 26	Friday	7.1
Mar 01	Monday	7.1
Mar 03	Wednesday	7.2
Mar 04	Thursday	<i>Quiz #4</i>
Mar 05	Friday	7.2
Mar 08	Monday	Spring Break
Mar 10	Wednesday	Spring Break
Mar 11	Thursday	Spring Break
Mar 12	Friday	Spring Break
Mar 15	Monday	7.3
Mar 17	Wednesday	7.3
Mar 18	Thursday	<i>Quiz #5</i>
Mar 19	Friday	7.4
Mar 22	Monday	7.4
Mar 24	Wednesday	7.5
Mar 25	Thursday	<i>Quiz #6</i>
Mar 26	Friday	7.6
Mar 29	Monday	7.6/7.7
Mar 31	Wednesday	7.7
Apr 01	Thursday	<i>Quiz #7</i>
Apr 02	Friday	No Class
Apr 05	Monday	No Class
Apr 06	Tuesday	7.8
Apr 07	Wednesday	7.8
Apr 08	Thursday	Review
Apr 09	Friday	Review
Apr 12	Monday	Exam #3

Tentative Schedule

Apr 14	Wednesday	8.1
Apr 15	Thursday	8.1
Apr 16	Friday	8.1
Apr 19	Monday	8.2
Apr 21	Wednesday	8.3
Apr 22	Thursday	<i>Quiz #8</i>
Apr 23	Friday	8.3
Apr 26	Monday	8.4
Apr 28	Wednesday	8.7
Apr 29	Thursday	<i>Quiz #9</i>
Apr 30	Friday	8.7/8.8
May 03	Monday	8.8
May 05	Wednesday	10.1
TBA		Final Exam