

Instructor Darryl Allen
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Office Hours Mon 10-11am, Tue 7-8am, Wed 12-2pm, Thu 7-8am and by appointment.
MAC In addition to office hours I am also available in the MAC Mon 9-10am, 12-1pm, 2-4pm, Tue 12-1pm, Wed 9-10am, Th 12-1pm, Fri 9-10am, 1-3pm
Text Calculus: Early Transcendentals, 6E, James Stewart, Thompson/Brooks/Cole
Lecture M-F 11:00am-11:50am 1526

Course Title and Number

Math 20-10584, Analytic Geometry and Calculus I, 4 units.

Course Prerequisites

Grades of "C" or better in MATH 002 and MATH 051, or MATH 004.

Important Note

It is not enough that at some point in the past you took the prerequisite classes. You must actually have a command of the material covered in those classes to succeed in this course. This class will be taught under the assumptions that each student is qualified to take the class (has the necessary prerequisite knowledge and a willingness to take an active part in the learning process) and is interested in learning the material.

Course Description and Objectives

MATH 20, the first of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is the study of the differential and integral calculus of functions of one variable. Topics covered are limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, definite and indefinite integrals, fundamental theorem of calculus, and applications of the definite integral.

Student Learning Outcomes

1. Define and apply the concepts of limits, continuity, derivatives and antiderivatives to solve a variety of word problems (both familiar and unfamiliar) and corroborate their solutions with practical reasoning.
2. Demonstrate understanding of the geometric relationship between a function, its first and second derivatives and its antiderivatives.
3. Interpret and analyze information to develop strategies for solving problems involving related rates, optimization, and approximation by linear models.

Course Content Outline

We will be covering the material contained in chapters 1-5 of our text, with chapter 1 being a review of concepts from precalculus.

Methods of Evaluation

There will be 5 or so exams (roughly one per chapter) followed by a comprehensive final. No makeup exams are allowed. There will be 10 or so unannounced quizzes usually occurring at the beginning of lecture. No makeup quizzes are allowed. Homework will be assigned daily. Attendance in lecture and the MAC is required. If a student has not **consistently** spent the required time in the MAC Lab each week, they will be dropped from the course.

Grading Standards

Your grade for the course will be determined as follows:

	Points	Points	Grade
MAC Activities	100	900-1000	A
Quizzes	200	800-899	B
Exams	600	700-799	C
Final Exam	300	600-699	D
		Below 600	F

Academic Dishonesty Policy

Your instructor clings to the old-fashioned belief that a student's grade should reflect their understanding of the material and not that of a friend or neighbor. As a result it is expected that the work you submit for the course be the product of only your labor and

intellect. If it is found that work submitted for homework, quizzes, or exams is not original and not produced only by the student submitting it, that work will receive zero points and that score not dropped.

Attendance Requirements

It is expected that students **attend every class**, arrive on time, and stay the entire class period. Those who do not will almost surely fail. It is very difficult to “catch up” in a mathematics or science class. One of the keys to success in such courses is to keep up with the material. I will take attendance on a daily basis. Any student missing more than 5 class meetings can be dropped from the course (as described in the Faculty Handbook). The last date to register is Sep 4, 2011. The last date to drop the course and receive no grade is Sep 18, 2011. The last date to drop the course and receive a “W” is Oct 30, 2011.

Outside of Class Homework Expectations

Homework from each section will be assigned. It is expected that students attempt every homework problem. Many of these problems will show up on tests and quizzes.

Additional Requirements

Students must spend **at least 1 hour each week** of the semester in the Math Activities Center (MAC), room 1525. MAC activities will be distributed in lecture and will be turned in at the beginning of lecture on Mondays. Any student not having at least MAC hours by the census date (Sep 6, 2011) will be dropped from the class. **No electronic devices allowed in the classroom.** The list of proscribed devices includes, but is not limited to, cell phones, IPODS or other sound or video devices, cameras, and graphing calculators or calculators that can render text. **No eating in the classroom is allowed. If your cell phone rings during class you will be asked to leave the room**, and will miss that class meeting as well as the following one (which is the two misses allowed).

Dates of Midterm and Final Exams

The final exam is Mon, Dec 19, 2011, 10:30am-12:30pm.

Dates of Semester Holidays

Holidays are Sep 5, 2011 (Labor Day), Nov 11, 2011 (Veterans' Day), and Nov 21-25, 2011 (Thanksgiving).

How to Get Great Grades without Really Trying

As with most things in life, there is an easy way and a hard way to get good grades. The hard way is to skip classes, show up late for classes, fail to do the homework, and then try to cram 4 weeks worth of material prior to every exam. This is a recipe for failure.

You might find that many of the following strategies improve your grades and reduce your stress. I strongly encourage you do the following:

1. Attend every lecture arriving on time and staying for the entire class period.
2. Prior to attending said lecture read through the notes from the previous lecture, and skim through the section to be covered in that lecture.
3. Take notes.
4. As soon as possible after class recopy your notes, and do the homework.
5. Ask questions if any concept is not clear. Take advantage of your instructor's office hours.

This is the easy way to A's. You may well find that you never need to study for exams since you at all times know the material.