

MTH 141 - Calculus 1

Section 01- Winter 2004

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Course Web Site : <http://knowledge.udmercy.edu>

	Mon.	Tues.	Wed.	Thurs.
Office Hrs:	11:00-1:30	11:00-1:30	11:00-1:30	11:00-12:45

& by appointment

Text : *Calculus, 7th ed.* by Anton, Howard

Grading : 35% Tests (3)
20% Quizzes (frequent, unannounced, from HW)
20% Homework Assignments (many)
10% Maple Assignments
15% Final Exam (Cumulative)

Grading Scale :

93-100% A	87-89% B+	77-79% C+	69-67% D+
90-92% A-	83-86% B	73-76% C	60-66% D
	80-82% B-	70-72% C-	0-59% F

Course Description :

Topics covered will include : functions, limits and continuity, derivatives and integrals of polynomial, rational, exponential, logarithmic and trigonometric functions.

Prerequisites :

MTH 140 or equivalent. Algebra and trigonometry skills, including - ability to solving equations, ability to simplify and manipulate expressions (including polynomial, rational and trig expressions), ability represent and interpret graphs. Students that feel they would benefit from some review should get tutoring (see below) or see the instructor for help. The text has a review of some of these topics in the appendix.

Objectives :

Students will demonstrate the ability to use calculus procedures to solve problems.

Students will demonstrate an understanding of calculus concepts when solving problems.

Students will be able to communicate calculus concepts and procedures in verbal, written, graphical, tabular and symbolic form.

Outcomes:

Students will be able to interpret, manipulate and apply functions in verbal, written, graphical, tabular and symbolic form.

Students will be able to interpret, manipulate and apply limits in verbal, written, graphical, tabular and symbolic form.

Students will be able to interpret, manipulate and apply derivatives in verbal, written, graphical, tabular and symbolic form.

Students will be able to begin to interpret and manipulate integrals in verbal, written, graphical, and symbolic form.

Students will be appropriately use technology to assist in solving problems.

Homework :

You will receive a homework sheet with assignments for each chapter.
Expect to spend 1-3 hours per night on homework.

Attempt the homework for the section that is covered in class that day.

Mark the problems you had trouble with and bring those questions to the next class.

The next class day questions will be answered on the homework, the following class, the homework will be collected and graded, or there will be a quiz on that assignment. Quiz questions will come directly from the homework.

DO NOT POSTPONE getting help on material you found difficult!

Homework is worth 10 points a piece. To receive full credit, you must SHOW YOUR WORK, make an attempt at every problem, and correctly complete the 2 or 3 problems chosen by the instructor.

Late homework will be accepted for partial credit up until the test on that material.

Tests :

There will be 3 tests and a cumulative final exam.

Quizzes :

Quizzes will come from previous assignments given. **There will be NO make-up quizzes given.** A missed quiz will result in a zero grade. Your two lowest quizzes will be dropped. (Therefore, try not to miss class more than twice!)

Maple:

We will be using the Computer Algebra System (CAS) Maple in this class. You should purchase (at least) 2 disks for saving your Maple worksheets.

The instructor will provide assistance in learning Maple. There will be tutorials and homework assigned to be completed using Maple.

Blackboard :

Please visit UDM's blackboard page <http://knowledge.udmercy.edu>.

If you do not already have an account, please click the **Create Account** button to do so.

Click the **Login** button.

To enroll in the course **Calculus1 - 9:00am** :

1. Select the **Courses** tab
2. Under course catalog, choose: **College of Engineering & Science**.
3. Look through the course listings (or search) for: **MTH141-01**.
4. Enroll in the course. The course **access code** is : draper
(Note that the access code is case-sensitive)

The class calendar will be updated on the this web site. Materials for class will be posted here.

Check the blackboard web site regularly.

Make-up Policy :

The will be NO make-ups given for quizzes. Make-ups on tests will only be allowed in extreme circumstances beyond your control. An e-mail prior to the absence (or A.S.A.P.) is expected. Students are responsible for any work missed. Check the blackboard web site.

Calculators :

You must have a graphing calculator for this course (and its instruction book.)

Topics To Be Covered : Sections:

Some of Chapter 1 (see chapter outline)

2.1 - 2.3, 2.5, 2.6

3.1 - 3.7

4.1 - 4.5

5.1, 5.2, 5.4 - 5.7

6.1 - 6.6

Academic Integrity :

Each student will be expected to meet the standards of academic ethics. Sanctions will be imposed on those who fail to meet these standards according to the *Student Handbook* of the College of Engineering and Science and the *Student Rights and Responsibilities* publication of the University of Detroit Mercy.

Plagiarism will not be tolerated. Referenced work must be cited. If a determination is made that plagiarism has occurred, all parties involved will receive zero grades and the matter will be referred to the appropriate dean(s).

Dates of Note (test dates are subject to change - check Blackboard for up to date schedule):

Monday, January 19	Martin Luther King day - No class
Thursday, February 5	Test #1 : Chapter 1 - 3.3
Monday, March 15	Test #2 : Chapters 3 & 4
March 1 - 5	Spring Break - No class
Friday, March 26	Last day to drop
Thursday, April 7	Test #3 : Chapters 5 & 6
Wednesday, April 21	Final Exam 8:00am - 9:50am