

Course Syllabus
MTH 142: Calculus I (4 credit hours) CID#4671
Fall 2007

Instructor: Dr. John Alford

Class Meeting Time: 11:00-11:50 M/W, 11:00-12:20 Tu/Th

Class Meeting Place: LDB 401

Office: LDB 414

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Office Hours: M/W 9:30-10:30, T/TH 12:30-1:30, or by appointment

Description: This course provides an introduction to some of the fundamental concepts, skills, and applications of differential calculus.

Objective: In this course the student is expected to obtain an understanding of the following topics:

- 1) limits and continuity,
- 2) the derivative,
- 3) techniques for differentiation of algebraic, logarithmic, exponential and trigonometric functions,
- 4) applications of the derivative and anti-differentiation,
- 5) the definite integral,
- 6) the Fundamental Theorem of Calculus

The prerequisite is MTH 163 (Trigonometry) or high school equivalent.

Textbook: *Thomas' Calculus Early Transcendentals*, Eleventh edition, Thomas /Weir /Hass /Giordano

Exams, Quizzes, Final Exam, and Grade: There will be *4 exams, multiple quizzes and homework assignments*, and *a final exam*. There are **no** make-up exams, quizzes, or homework. You will get **0 points** for any exam, homework, or quiz that you miss, but the lowest exam grade and two lowest homework/quiz grades will be dropped. The weights are as follows:

Exam average 60% (20% each, drop the lowest)

Quiz/homework average 10% (drop the two lowest)

Final exam 30%.

The grading scale is:

90-100% **A**;
80-89%: **B**;
70-79%: **C**;
60-69%: **D**,
59% and below: **F**

I reserve the right to change the scale if I feel it is necessary. **No extra credit** can be earned.

Cheating: Cheating will not be tolerated! I will prosecute cheaters to the fullest extent.

Calculator: TI-83 is required. It will be used for graphing and numerical computations. It cannot be used to do symbolic mathematics (that is, calculators with *computer algebra system* capabilities are not allowed). If you use a graphing calculator other than the TI-83, then you take the responsibility of knowing the usage of your calculator and convincing me that it does not do symbolic mathematics.

Student Syllabus Guideline: You may find a more detailed description of the following policies. These guidelines will also provide you with a link to the specific university policy or procedure: <http://www.shsu.edu/syllabus/>

Academic Dishonesty: Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. See [Student Syllabus Guidelines](#).

Classroom Rules of Conduct: Students are expected to assist in maintaining a classroom environment that is conducive to learning. Students are to treat faculty and fellow students with respect. Students are to turn off all cell phones while in the classroom. Under no circumstances are cell phones or any electronic devices to be used or seen during times of examination. Students may tape record lectures provided they do not disturb other students in the process.

Students with Disabilities: It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should visit with the Office of Services for Student with Disabilities located in the Counseling Center. See [Student Syllabus Guidelines](#)

Student Absences on Religious Holy Days: Students are allowed to miss class and other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. Students remain responsible for all work. See [Student Syllabus Guidelines](#)

Visitors in the Classroom: Only registered students may attend class. Exceptions can be made on a case-by-case by the professor. In all cases, visitors must not present a disruption to the class by their attendance. Students wishing to audit a class must apply to do so through the Registrar's Office

Note: The course schedule and exam dates are tentative and may be subject to revision. Homework and quiz days/times will be announced in class.

Schedule

Week	Date	Sections covered/exams
1	08/20	First day stuff, review (chapter 1), 2.1 and 2.2
2	08/27	2.3, 2.4
3	09/03	<i>Labor Day Holiday</i> , 2.5, 2.6
4	09/10	2.7, 3.1, Exam 1
5	09/17	3.2, 3.3
6	09/24	3.4, 3.5
7	10/01	3.6, 3.7
8	10/08	3.8, 3.9 Exam 2
9	10/15	3.10, 4.1
10	10/22	4.2, 4.3
11	10/29	4.4, 4.5
12	11/05	4.6, 4.7, Exam 3
13	11/12	4.8, 5.1
14	11/19	5.2, 5.3 <i>Thanksgiving Holiday</i>
15	11/26	5.4, 5.5, Exam 4
16	12/03	5.6, review, <i>Last Class Day: Thursday</i>

Final Note: I reserve the right to change this syllabus as necessary. I will announce any changes during the semester.