

MATH 1910 Course Syllabus

Dr. Zachariah Sinkala

Office number: KOM 203D

Office Telephone: 898-2679

Office hours: 9.00am -11.00am MTWR

Email: zsinkala@mtsu.edu

COURSE TITLE: Calculus I

PREREQUISITE: This course requires Math 1730 or its equivalent. Familiarity with graphing calculators (TI-83) is required. You may not use graphing calculators with symbolic manipulation software (DERIVE, MAPLE, etc.) on exams.

TEXTBOOK: Calculus(*Early transcendental functions*),5th Edition by Larson and Edwards

PURPOSE: This is a course on differential calculus with an introduction to integral calculus. It is the first in a sequence of three courses designed to provide the computational tools necessary for continued work in physics, engineering, and more advanced mathematics. All three must be completed to gain thorough exposure to all the standard calculus topics.

OBJECTIVES: Upon completion of this course, students will have used:

- graphs and how to extract information from them;
- derivatives and the means for calculating them;
- limits and the means for calculating them;

- definite and indefinite integrals and the means for calculating elementary examples;
- classic applications of differentiation;
- some advantages and limitations of current technology as applied to calculus.

REQUIREMENTS: In general, you are expected to

1. attend class lectures;
2. read and study class assignments and solve assigned problems;
3. ask questions in class when you are unsure of any concept or unclear on any assigned problem;
4. attend the help lab or come to my office for additional assistance as necessary;
5. take all exams (including the final) on the day they are scheduled
6. come to class prepared (this includes completing homework in a timely manner, bringing your textbook, and bringing your calculator.

Four tests will be given which will count 50 % towards the Final grade. Quizzes count 30% and the final exam will count 20 percent.

90-100 A, 80-89 B, 70-79 C, 60- 69 D Below 60 F.

The **Grade I** indicates that the student has not completed all course requirements because of illness or other uncontrollable circumstances especially which may occur toward the close of the term. Mere failure to make up work or turn in required work on time does not provide a basis for the grade I .

TOPICAL OUTLINE: This course consists of selected topics from Chapters 2, 3, 4, and 5 in the required text. **Schedule of classes:**

January: 13 House keeping, a quick Review 18 2.2 19 2.3 20 2.3, Quiz one

24 2.4 25 2.5 26 3.1 27 3.1, Quiz two 31 3.2

February: 1 3.3 2 3.4 3 3.4, Quiz three 7 3.5 8 3.6 9 Review 10
 Test one 14 3.7 15 3.8 16 3.8 17 4.1, Quiz four 21 4.1 22 4.2 23 4.2 24
 4.3, Quiz five 28 4.3

March: 1 4.4 2 4.5 3 4.5, Quiz six 14 Review 15 Test two 16 4.6
 17 4.7, Quiz 7 21 4.7 22 4.8 23 4.8 24 5.1, Quiz eight 28 5.1 29 5.2 30
 5.2 31 5.2, Quiz nine

April: 4 5.3 5 5.3 6 5.4 7 Review, Quiz ten 11 Test three 12 5.5
 21 5.5 25 5.6 26 Test four 27 5.7

May: 4 Wednesday Final comprehensive examination
 7.30am-9.30 am.

Drop or Withdrawal Policy Please note the Drop Policy and Withdrawal Procedures as they are stated in the Spring 2010 Registration Guide. The last day to drop this course without a grade is January 26. The last day to drop this course with a "W" is March 25. A grade of "I" will be given only in accordance with University Policy.

No grade of "W" will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student's control. In particular, a "W" will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an "F" can have ramifications on financial aid.

ADA Statement: If you have a disability that may require assistance of accommodations, or if you have any questions related to any accommodation for testing, note taking, reading, etc., please speak with me as soon as possible. You may also contact the Office of Disabled Student Services (898-2783) with any questions about such services.

Lottery Scholarships: To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, or I in this class may negatively impact

TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until a bachelor degree is earned. For additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at scholarships.web.mtsu.edu/telsconteligibility.htm, or contact the Financial Aid Office at 898-2830.