

MATH 1700 Calculus I, Science and Engineering
Spring 2012 Course Outline
CRN10749

Time and place: MTRF 3:00-3:50, 3213 Sangren Hall.

Instructor: Dr. Annegret Paul. Office: 6619 Everett Tower. Phone: (269) 387-3614.

Office hours: TBA; or by appointment. I am also happy to answer questions by email: annegret.paul@wmich.edu.

Prerequisites: MATH 1180 with a grade of C or better, or Placement into MATH 1220. There will be an advisory algebra exam on prerequisite skills for this course. It is a take-home exam (posted on e-learning) which does not count towards your grade, but is intended as a device for you to determine whether you need to review some of the material from previous classes.

Text and Calculator : The required text consists of lecture notes which will be provided on e-learning. The required calculator is a TI-89 graphing calculator or equivalent. Technology provides some useful and important tools for problem-solving and computation. In this context, the emphasis in this course will be the *appropriate* use of this technology. You will be expected to attain a computational proficiency independent of your calculator.

The following website by Professor Pence contains a nice tutorial of how to use these graphing calculators: <http://homepages.wmich.edu/~pence/MATH170-171.htm>

Course Description: MATH 1700 is the first of a two-semester sequence in differential and integral calculus which emphasizes applications and preparation for science and engineering (particularly physics). Topics include: Vectors and Points in Space, Limits, Derivatives, Applications of Derivatives, and Integration.

Attendance: Regular attendance is expected. If you must miss a class, it is your responsibility to determine what has transpired; be sure you know two or three fellow students whom you can contact for such a purpose. Class starts at 3 pm sharp and ends at 3:50; be there on time and stay until the end; being late or leaving early is disruptive and therefore unacceptable. Cell phones must be turned off and out of sight during every class. Use of cell phones during exams or quizzes is considered cheating, and cause for referral to the Office of Student Conduct.

Homework, quizzes, and exams: Homework exercises will be assigned (posted e-learning) regularly, and collected and graded roughly half the time. It is important to do the homework problems carefully and in a timely fashion, since this is where you learn, practice for exams, and find out where you need help. Good documentation of your work is as important as correctness. Distinguish clearly between given and unknown quantities, don't put "=" between quantities unless they are indeed equal, and provide reasoning and explanatory sentences, in correct English. It is also a good idea to work in groups; however, you will only benefit if you work on the problems by yourself before you meet with others. There will also be weekly quizzes based on the homework.

There will be three midterm exams and a final. Make-up exams will be given only under exceptional circumstances (e. g., very serious illness), and proof of those circumstances will be required. The lowest

quiz score and the lowest homework score will be dropped. This includes missed quizzes and homeworks; there will be no make-up quizzes given. Tentative exam dates:

Exam 1: Tuesday February 7; **Exam 2:** Tuesday March 13; **Exam 3:** Tuesday April 10;

Final: Wednesday April 25, 2:45-4:45.

Grading: The course grade will be based on the homework, quizzes, the midterms, and the final exam. The homework will count 10%, the quizzes 15% together, the midterm exams 15% each, and the final exam 30% of the total course grade. The approximate grading scale is given below, the numbers indicating the percentage of total points obtained.

A: 88-100; BA: 84-87; B: 75-83; CB: 72-74; C: 64-71; DC: 60-63 D: 50-59; E: 0-49.

Some dates:

MLK Day (no instruction): January 16;

Spirit Day (no instruction): March 2;

Spring Break: March 5 through March 9;

Last day to drop with "W": March 19;

Last day of instruction (for this class): April 20.

Academic Integrity: You are responsible for making yourself aware of and understanding the policies and procedures in the Undergraduate and Graduate Catalogs that pertain to Academic Honesty. These policies include cheating, fabrication, falsification and forgery, multiple submission, plagiarism, complicity and computer misuse. [The policies can be found at <http://catalog.wmich.edu> under Academic Policies, Student Rights and Responsibilities.] If there is reason to believe you have been involved in academic dishonesty, you will be referred to the Office of Student Conduct. You will be given the opportunity to review the charge(s). If you believe you are not responsible, you will have the opportunity for a hearing. You should consult with your instructor if you are uncertain about an issue of academic honesty prior to the submission of an assignment or test.

For additional information, such as the Code of Honor and general academic policies, please visit <http://osc.wmich.edu>, www.wmich.edu/registrar and www.wmich.edu/disabilityservices.