

MATH 272 Multivariable Calculus I
Dr. Boersma
Winter 2009

Goals: We will continue the study of calculus. In particular we will investigate infinite sequences and series and see how familiar functions can be approximated by polynomials. We will also begin studying functions of more than one variable: examples, how to visualize them, and how one goes about measuring rates of change. A short introduction to the use of vectors in calculus will also be covered. We will cover (for the most part) chapters 11 – 14 from our textbook.

Office: Bouillon 107E, phone: 963-1395, email boersmas@cwu.edu. Office hours will be announced in class shortly. You may of course drop by anytime. If I'm not busy I'll be glad to talk with you.

**Required
Materials**

1. **Text:** *Thomas' Calculus: Early Transcendentals*, by Weir, Hass, and Giordano.
2. TI-83/84 Graphing Calculator

Your Grade: Your final grade in this course will depend on three fifty-minute exams and various collected homework assignments.

Exams Three fifty-minute exams will be given in class (300 pts total), thus making attendance mandatory on these dates. Make-up exams will only be given in extreme cases. If you anticipate a conflict, please see me at least one week **before** the date of the exam.

Collected

Homework

I will periodically assign problems to be handed in and graded. Sometimes these problems will be taken directly from our textbook and other times you may find them a bit more challenging than the textbook problems. In either case, I will be looking for neat, clear, and concise solutions containing complete and eloquent explanations. These homework assignments are an integral part of your course grade and give you the opportunity to show me your mastery of the subject in a non-testing environment. It will be made very clear in class when an assignment is to be handed in to be graded. Pay close attention to the due date! Late homework may not be accepted and will not receive full credit.

Other

Homework

There will be **daily** homework assignments from the textbook. It is **your responsibility** to keep up with these assignments. Although most of these problems will not be collected or graded, they will be the basis for all of

the exams in the course. Keep up. Do well on these problems and you should do well in the course! If you find yourself struggling with these daily homework assignments, please come by and talk to me.

Technology: We will discover how the TI-83 graphing calculator can be used as an extremely powerful problem solving tool in calculus. I will assume that everyone is familiar with the basic arithmetic and graphical operations of the calculator. If this is not the case, you should come by and talk with me about your familiarity with the calculator.

Attendance I will assume that everyone attends every class meeting. If you happen to miss a day, be advised that you are still responsible for any assignments that were given or turned in. Feel free to come by my office to discuss the day's activities that you may have missed.

Final Grades: As mentioned in part above, your final grade will depend on

Collected Homework	100 pts.
Three in-class exams (100 pts each)	300 pts.
TOTAL	400 pts.

While I reserve the right to “curve” final grades as I deem appropriate, your grade will be no lower than:

A :400– 370	C+: 317– 306
A-: 369– 358	C: 305– 290
B+:357– 346	C-: 289– 278
B :345– 330	D+: 277– 266
B-: 329– 318	D : 265– 250
	D- : 249– 238

Students who have special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact me or Robert Harden, ADA Compliance Officer and Director, ADA Affairs and Student Assistance on campus at 509-663-2171 for additional disability-related educational accommodations.

DATES TO REMEMBER

- Exam 1: January 27
- Exam 2: February 13
- Exam 3: March 4