

# MATH 151 507-509: Calculus I

Lecturer: Prof. Wolfgang Bangerth  
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Office hours: Wednesdays, 8:30–11:30am or by appointment

Lecture: Tuesdays + Thursdays, 8:00am–9:15am  
HELD 113

Lab & recitation: See online table for each section of this class

## Textbook

J. Stewart et al.: *Calculus: Early Vectors (Aggie Version)*, published by Brooks-Cole. The computer laboratory will also use Calclabs with Maple, also published by Brooks-Cole.

## Course Description

Credit 4. This course will cover vectors in two dimensions, differentiation and integration of functions of one variable, and applications such as work, velocity/acceleration, optimization (max/min), and curve sketching. The course meets twice per week in lecture and twice in recitation. One of your recitation meetings is designed to discuss questions over homework or lecture. The other recitation meets in the computer laboratory where the computer package Maple will be introduced. The goal of the laboratory portion of the course is to show how problems that are too difficult to solve by hand, can be solved with the help of the computer. The prerequisite for this course is either Math 150 (precalculus) or a good high school mathematics background that includes algebra II, analytic geometry and trigonometry.

A weekly course schedule and suggested homework list are available from the departmental Math 151 course web page.

## Webpage

The Mathematics Department has a web page for Math 151 at  
<http://calclab.math.tamu.edu/docs/math151>.

Other course information will occasionally also be distributed at  
<http://www.math.tamu.edu/~bangerth/teaching.html>

## Exams + Grading

Your grade will be determined by three exams (15, 15, and 20 per cent of the total grade), a cumulative final exam (25%), and a laboratory grade (25%). The increased weights of the third and final exams reflect the cumulative nature of the course. The 25% laboratory grade will be determined by quizzes (10%), computer assignments (10%), and homework (5%).

The three exams during the semester are common exams and are scheduled for 9/27/2007, 10/25/2007, and 11/27/2007, each 7:30–9:30pm. Rooms will be announced in time.

*Make-up exams:* Make-ups for missed quizzes and exams will only be allowed for a university approved excuse in writing. Wherever possible, you should inform the instructor as soon as possible that you will miss an exam or quiz. In any case, consistent with University Student Rules, students are required to notify an instructor by the end of the next working day after missing an exam or quiz. Otherwise, they forfeit their rights to a make-up.

### **Policies**

*Academic integrity:* The usual rules of academic integrity apply. In particular, the Aggie Honor Code “An Aggie does not lie, cheat or steal, or tolerate those who do” should be self-evident, see

<http://www.tamu.edu/aggiehonor.html>

Copying work done by others, either in-class or out of class, is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. Collaboration on assignments, either in-class or out-of-class, is forbidden unless permission to do so is granted by your instructor. For more information on university policies regarding scholastic dishonesty, see the web page on University Student Rules.

*Absences:* Let your instructor know if you have to miss a class in the future. If you missed a class without telling, let him know as soon as possible afterwards. In general, Rule 7 of the Texas A&M University Student Rules applies, as do the other rules.

*Copyright policy:* All printed materials disseminated in class or on the web are protected by Copyright laws. One xerox copy (or download from the web) is allowed for personal use. Multiple copies or sale of any of these materials is strictly prohibited.

*Disabilities:* If you have a disability and need special assistance, please contact me so we can make accommodations. The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please also contact Services for Students with Disabilities, Koldus 126, 845-1637.

For other policies and other information, please read

<http://www.math.tamu.edu/teaching/operationspg.html>