

MATH 151—Engineering Mathematics I
FALL 2007, SECTIONS 816–818

Instructor: David Kerr

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Office: Milner Hall 121

Office hours: MW 1:00–2:30 or by appointment

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Lectures: MWF 11:30–12:20, Heldenfels 113

Textbook: *Calculus: Early Vectors*, preliminary edition, by Stewart et al, published by Brooks/Cole. The computer lab will also use *Matlab: An Introduction* by Amos, published by Wiley.

Course description: 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 three times in lecture and twice per week in recitation. One of your recitation meetings is designed to discuss questions concerning the homework or lectures. The other recitation meets in the computer laboratory where the computer package Matlab will be introduced. The goal of the laboratory portion of the course is to show how problems that are too difficult to solve 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.

Grading: Grades will be determined by three exams, a cumulative final exam, and a laboratory grade, weighted as follows.

| Exam I | Exam II | Exam III | Final Exam | Lab Grade |
|--------|---------|----------|------------|-----------|
| 15% | 15% | 20% | 25% | 25% |

Grades will be determined in the standard way: A: 90–100, B: 80–89, C: 70–79, D: 60–69, F: 0–59. Exams I, II, and III are common exams and are administered in the evenings from 7:30 to 9:30 pm. The increased weights of the third and final exams reflect the cumulative nature of the course. The lab grade will be determined by quizzes (40%), Matlab assignments (40%), and online assignments (20%).

Make-up policy: In accordance with university regulations, make-ups for missed exams and assignments will only be allowed for a university-approved excuse in writing. Whenever possible, students should inform the instructor before an exam or assignment is missed. Students are required to notify the instructor by the end of the next working day after missing an exam or assignment. Otherwise, they forfeit their rights to a make-up.

Support services: 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 contact the Department of Student Life, Services for Students with Disabilities, in Room 126 of the Koldus Building or call 845-1637.

Academic integrity: The Aggie Code of Honor states “An Aggie does not lie, cheat, or steal or tolerate those who do.” See <http://www.tamu.edu/aggiehonor> for university policy concerning academic dishonesty and the rules and procedures of the Honor Council.

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