

Engineering Mathematics II: Math 152

Sections 504, 505, 506

Fall 2007, MWF 9:10–10:00 in HELD 111

Professor: Michael Anshelevich, 326 Milner, manshel@math.tamu.edu.

Webpage: www.math.tamu.edu/~manshel/m152/m152.html.

Office hours: MWF 10:10–11:10, or by appointment.

TA: J. Hitchcock. Labs:

- Section 504, T 8:00–8:50 in CE 223 and R 8:00–8:50 in BLOC 127.
- Section 505, T 11:10–12:00 in ENPH 206 and R 11:10–12:00 in BLOC 127.
- Section 506, T 12:45–1:35 in CE 137 and R 12:45–1:35 in BLOC 125.

Text: Stewart, *Calculus: Early Vectors (Aggie Version)*, preliminary version, Brooks/Cole Publishing, 1999, ISBN 0534493483. The computer laboratory will also use *Calclabs with Maple*, also published by Brooks/Cole.

Course description: Credit 4.

- Techniques of integration (Chapters 6, 8).
- Applications of integration: area, volume, arc length, work, hydrostatic force, center of mass and first order differential equations (Chapters 7, 9).
- Sequences, series and power series (Chapter 10).
- 3D vectors, dot and cross products and lines and planes (Sections 11.1–11.4).

The course meets for three hours per week in lecture with your professor and twice per week in recitation with your teaching assistant (TA). One of your recitation meetings is designed to discuss questions over homework or lecture. The other recitation meets in the computer laboratory using the computer package Maple. The goal of the computer 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 Math 151 or equivalent.

Exams: We will have three midterm tests on Thursdays, **September 27**, **October 25**, and Tuesday, **November 27**, 7:30–9:30 p.m. These are common exams (same exam is given for all sections of Math 152). The final exam will be on Monday, **December 10**, 8–10 a.m. If, under *completely exceptional* circumstances, you need to miss one of the tests, a make-up exam will be given. Only University-approved excuses will be accepted, and you have to let me know preferably in advance, and no later than 2 days after the exam. The exams are closed book, closed notes. You should bring your ID to all tests. Copies of old exams are available on the web.

Grading:

Exam I	Exam II	Exam III	Final	Lab
15%	15%	20%	25%	25%

The increased weights of the third and final exams reflect the cumulative nature of the course. A total score of 90% or more guarantees an A, a score of 80% or more a B, 70% or more a C, 60% or more a D.

Homework: The class will have online homework.

Quizzes: There will be weekly quizzes, administered in the labs on Tuesdays. In addition, there may be occasional announced pop quizzes during lecture. The lowest score will be dropped.

Scholastic Dishonesty: Cheating of any form is not acceptable and it will be dealt with harshly. In particular, copying work done by others, either in-class or out of class, is an act of scholastic dishonesty and it will be prosecuted to the full extent allowed by university policy. Students are encouraged to discuss the course material outside of class, however all the assignments must be done individually. For more information on university policies regarding scholastic dishonesty, see the University Student Rules.

Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.”

Other important dates: August 31 (last day to add or drop a course), November 2 (last day for a Q-drop).

Students with disabilities: Come talk to me no later than the first week of classes. “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 that 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.”

Attendance: According to the University Student Rules, absence for three or more class days requires a University-approved excuse and documentation.

Keys to success: Attend class (of course :) Solve *all* the homework problems, well before the exams. Spend more than seven hours per week working on the problems. Form study groups to discuss the course material and homework problems. Read ahead in the text.

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