

MATH 152 Engineering Mathematics II - Honors
Spring 2011

Sections 201& 202, TR 2:20-3:35, RICH 114

About your instructor

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Office Hours TR 12:45-2:00 pm and by appointment.

Teaching Assistant: Daniel Godber, danielgarthur@gmail.com

Prerequisite: MATH 151 or equivalent. Credit will not be given for both MATH 152 and 172.

Textbook: *Calculus: Early Vectors*, preliminary edition (hard back), by Stewart et al, published by Brooks/Cole.
The computer laboratory will use *Matlab: An Introduction with Applications* by Gilat Amos.

Content and Learning Outcomes: The first half of this course will cover techniques of integration and applications of integration. The second half of this course covers series and sequences, Taylor Polynomials, three dimensional geometry. The course meets twice per week in lecture and twice per week in recitation.

At the end of the course, students should be able to:

- Apply the most important techniques of integration and different strategies to a variety of geometrical, physical and engineering applications.
- Understand and use basic concepts of convergence of infinite sequences and series.
- Apply power series to a variety of applications.
- Understand and apply vector operations in 3-dimensional coordinate system, including dot and cross product.
- Use Matlab to solve non-routine problems or that are too difficult to solve by hand.

Recitations and Matlab: One of your recitation meetings is designed to participate in weekly activities. During this the students will work in groups of 3 or 4 to complete the activity with the supervision/help of the TA. The students will turn this in for a weekly graded assignment. During the other recitation time students will work on the assigned matlab. During recitations students also will have a quiz (usually one per week) and will ask the TA questions over homework. If time permits, I will administer quizzes during lecture. All of the quizzes are mandatory, although, a couple of worst grades will be dropped at the end of the semester. That is why, NO make ups for QUIZZES.

Grade Ingredients: Exam I (20%), Exam II (20%), Final Exam (30%), Quiz (15%), Activities (5%), Matlab (10%)

Letter Grades: A(90-100%), B(80-89%), C(70-79%), D(60-69%), F(0-59%)

(I have been known to curve final grades if I feel that it is warranted.)

Exams: There will be TWO exams tentatively on Tuesday 3/1 and 4/12. Final exam will be on Wednesday, 5/11, 1-3 p.m. Exams 1&2 will be given during the regular class time. Calculators will NOT be allowed on the exams and Final. The Final exam will be comprehensive. Remember to bring your ID with you for all exams!

Class Announcements And E-Mail Policy: Class announcements will be posted on my homepage. It is your responsibility to check them weekly. Some important course announcements might be sent to your NEO e-mail account. It is your responsibility to check the NEO account and get familiar with the announcements.

Suggested Homework: Selected problems from your textbook will be assigned (see CLASS ANNOUNCEMENTS). These problems will not be graded. However, it is IMPERATIVE YOU DO THE SUGGESTED HOMEWORK TO PREPARE FOR QUIZZES AND EXAMS!!!

Attendance is REQUIRED: I will take daily attendance. If you sign the roll sheet, you are expected to remain in the classroom for the entire 75 minutes. More than 3 absences may have a detrimental effect on your grade especially in borderline cases. Come to class on time.

Make-Up Policy: Make-ups are subject to university policy. In accordance with university regulations, make-ups for missed exams will be allowed only for a university approved excuse in writing. Whenever possible, students should inform the instructor before an work is missed.

Tentative Weekly Schedule: All changes will be announced in class or via e-mail.

Week 1: 6.4, 6.5, 7.1	Week 2: 7.1,7.2	Week 3: 7.3, 7.4
Week 4: 7.5, 8.1, 8.2	Week 5: 8.3, 8.4	Week 6: 8.9, 9.3,9.4
Week 7: 10.1, Exam 1	Week 8: 10.2, 10.3	Week 9: 10.4, 10.5
Week 10: 10.6, 10.7	Week 11: 10.9,11.1	Week 12: 11.2, Exam 2
Week 13: 11.3, 13.4	Week 14: Review	

Students With Disabilities: 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 Services for Students with Disabilities (Cain Hall, Room B118, or call 845-1637).

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Scholastic Dishonesty: "An Aggie does not lie, cheat, steal, or tolerate those who do." Visit <http://www.tamu.edu/aggiehonor> and follow the rules of the Aggie Honor Code.

Note: This syllabus is subject to change at the instructor's discretion. The instructor reserves the right to make any changes he considers academically advisable. It is your responsibility to attend classes and keep track of the proceedings.

GOOD LUCK IN YOUR STUDIES!