MATH 152: 516-518 Engineering Mathematics II

Fall 2011

TR 11:10-12:25, HELD 111

About your instructor

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Office Hours M 11:00am-2:00pm, R 1:00pm-1:30 pm and by appointment (*in Blocker 629F*).

Teaching Assistant: Aaron Goldsmith, agoldsmath.tamu.edu

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 Application*s 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.

Weekly Schedule: The (tentative) weekly schedule is posted on the MATH 152 course homepage at

http://www.math.tamu.edu/courses/math152/currentsched.html

Recitations and Matlab: The course meets twice per week in lecture and twice per week in recitation. One of your recitation meetings is designed to discuss questions over homework or lecture and weekly quizzes will be administered here. 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 UP QUIZZES. The other recitation meets in the computer laboratory where the computer package Matlab will be introduced. Only the highest 10 Matlab assignments will be counted, so missed labs may not be made up.

Grade Ingredients: Average of 3 common Exams (50%) Final Exam (25%), Quiz (10%), Online Homework (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: Dates for the exams are Tuesday 27 Sep, Thursday 27 Oct, and Tuesday 29 Nov 7:30-9:30pm in a location to be announced. Content of the exams is available at the weekly schedule linked above. A comprehensive Final Exam will be held in HELD 111 on Monday 12 Dec, 8:00 a.m. - 10:00 a.m. Calculators will NOT be allowed on the exams and Final. 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.

On-Line Homework will be assigned from the WebAssign Homework system. All information regarding online homework can be found at http://www.math.tamu/ehmwk.

Suggested Homework: Suggested homework is posted on the MATH 152 course homepage. These problems will not be graded. However, it is IMPERATIVE YOU DO THE SUGGESTED HOMEWORK TO PREPARE FOR QUIZZES AND EXAMS!!!

Attendance is required: If lecture attendance becomes an issue, there may be unannounced quizzes ("attendance quizzes").

Make-Up Policy: If you miss an exam, you must contact me within 48 hours. Exams must be made up within 30 calendar days and require appropriate documentation of a university-excused absence.

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!