

Department of Mathematical Sciences
Clemson University
Fall 2005

MthSc434/634 (Section 003)
Advanced Engineering Mathematics

Instructor: Dr. Hyesuk Lee, Martin O 206, 656-5235, hkleee@clemson.edu

Meeting times: 9:05 - 9:55 on MWF

Office Hours: 10:30 - 11:20 on MWF or by appointment

Course Description: This course is designed to introduce students to linear algebra, vector spaces, Fourier series, orthogonal functions, and partial differential equations relevant to engineers, applied mathematicians, and physical scientists.

Objectives: The main goal of this course is to help students to master the basic concepts and skills they will use in their area. At the conclusion of this course, students should be able to analyze a set of partial differential equations to model a physical problem.

Text: Erwin Kreyszig, *Advanced Engineering Mathematics*, 8th edition, Wiley & Sons, 1999.

Course website: www.math.clemson.edu/~hkleee/mthsc434/mthsc434.html

Grading Policy: Your grade will be determined as follows:

- 2 Tests: 50%
Homework and Quizzes: 20%
Final Exam: 30%
- A: 90 - 100
B: 80 - 89
C: 70 - 79
D: 60 - 69
F: 0 - 59
- The final exam is mandatory and comprehensive.
- Requirements for MthSC634 will be above and beyond the standard MthSc434 level.
- For excused absences only, your final exam score will be counted as the missed test score. Excused absences consist of medical problems or emergencies approved by the instructor **before** the test is given. Unexcused absences will result in a zero score.
- Homework assignments will be given regularly. Homework problems will be collected regularly and graded based on completeness, neatness and accuracy. Homework assignments must be stapled.

Unannounced quizzes will be given as deemed necessary by the instructor. **Late homework assignments will not be accepted, and no make up on quizzes!**

Attendance: Regular attendance is necessary for each student to obtain maximum benefits for instruction. Each student is responsible for all the work including test and written work in all classes.

Students are expected to wait 15 minutes before leaving if the instructor is not present at the scheduled start time of the class.

Academic Integrity: As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning". Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Disability Access Statement: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students are encouraged to contact Student Disability Services to discuss their individual needs for accommodation.