

MATH M311: TOPICS IN APPLIED MATHEMATICS

Fall 2006: Section 504

Professor Eric Rowell

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Course: meets Tuesday/Thursday 8AM-9:15AM, Blocker 164.

Consultation:

Tuesday 10:30AM-12:00PM

Thursday 10:30AM-12:00PM

and by appointment (email me or stop by).

email policy: I will try to respond to all email in 24-48 hours.

Topics covered: Matrices, determinants, systems of linear equations, eigenvalues, eigenvectors, diagonalization of symmetric matrices, inner product spaces, orthogonal functions and series solutions to differential equations. Please see the attached syllabus for an approximate schedule.

Prerequisites: Completion of M221, M251 or M253 or equivalent, and M308 or concurrent enrollment.

Textbook:

Williamson and Trotter, *Multivariable Mathematics, 4th Edition*.

Grades:

Two exams worth 25%, final worth 30%, homework (and quizzes?) worth 20%. The final is scheduled for Monday, Dec. 11th from 1-3PM. The standard grading scale will be in effect: 90-100=A, 80-89=B, 70-79=C 60-69=D 0-59=F, with rounding to whole percentages.

Exams and Homework:

There will be two 75 minute in-class exams and one 2 hour final exam. In addition, there may be quizzes, which will be announced with at least 1 week's anticipation. Homework will be assigned daily, collected Thursdays at the beginning of class, and a selection of the problems will be graded.

Attendance: is crucial to your success in this class. Plan ahead, and arrive to class on time. You are responsible for all information presented in class, including but not limited to: announcements, changes to the syllabus, homework

assignments and material presented in lectures. If you miss a lecture, you should get notes from a classmate.

Make-Up Exams: will only be given in cases of excused absences outlined in the Student Rules, see <http://student-rules.tamu.edu/rule7.htm> for details. Documentation is required for all excused absences. For injuries/illnesses of less than 3 days, the “Explanatory Statement for Absence from Class” is acceptable.

Academic Integrity: Remember the Aggie Honor Code: “An Aggie does not lie, cheat or steal or tolerate those who do.” Cheating includes receiving or providing help on exams, copying work or allowing others to copy your work without instructors permission and using any unapproved form of technology or notes on exams. Cheaters never prosper, and disciplinary action will be taken.

Disabilities Act: The Americans with Disabilities Act is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. In particular, this legislation requires that students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. For more information, contact the Disability Services Office in Room B116 of Cain Hall or call 862-4570. I must have documentation from the DSO of the necessary accommodations at least 2 days **before** any quiz or exam in order to make appropriate arrangements.

Some Unsolicited Advice:

We cannot all be geniuses, so we must learn to be resourceful. Within the limits of academic integrity, you should use the resources of the library, the internet and study groups. Mathematics is not a vacuum: seek out connections between what you learn in this class and your other subjects such as physics and engineering. This will help motivate the concepts and lead to a more complete understanding.