

MATH 2010 Linear Algebra Spring Semester 2011

Instructor:

Dr. Michele L. Joyner
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Office hours: T,Th: 10:00 – 11:00 and other times by appointment.

Meeting Place & Time:

T,Th 11:15-12:35 Rogers-Stout Hall, Rm. 222

Course Description:

Systems of linear equations, Matrix algebra, inner products, vector spaces, linear transformations, eigenvalues, and three-space vector geometry

Textbook:

Anton, H. & Rorres, C., *Elementary Linear Algebra Applications Version*, 10th edition, Wiley, 2010.

Prerequisites:

Math 1840 (Analytic Geometry with differential calculus) or MATH 1910 (Calculus 1). This means you have satisfactorily passed the course AND have a retained working knowledge of the key concepts.

Requirements and Grading:

- ◆ **Exams:** There will be three 1-hour tests worth 100 points each. Below are the tentative test dates:
 - Test 1: Tuesday, February 15
 - Test 2: Thursday, March 24
 - Test 3: Thursday, April 21
- ◆ **Final Exam:** There will be one *comprehensive* final exam worth 100 points given on **Tuesday, May 3, 2011** from 8:00-10:00 a.m.
- ◆ **Homework:** This is an important part of the course. There are two separate groups of homework problems,
 - Graded homework:

There will be approximately seven to eight graded homework assignments. Each homework will be graded on a 10 point scale. (The lowest homework grade will be dropped.)

! Homework is due on the due date at the beginning of class! If homework is handed in late the following penalties will occur:

 - Turned in on the due date by 4:00 – 1/2 point off
 - Turned in within 24 hours of due date – 2 points off
 - Turned in within 48 hours of due date – 3 points off
 - No homework will be accepted after 48 hours past the due date!!

! On rare occasions, homework may be due on the day before a test. In these instances, **NO** late homework is accepted, because we will be going over the homework in class.
 - Practice homework:

These are problems from the textbook listed beside each section. Practice is extremely important for your success in this class. You should try to work as many of the listed problems as possible before the next class period. Approximately 10-15 minutes at the beginning of class will be set aside for you to ask questions regarding the textbook homework assignments. It is extremely beneficial for you to have tried the problems in order to know which topics you are having difficulty with. Also note that the quiz questions (see below) will come directly from homework problems.
- ◆ **Quizzes:** There will be several quizzes given throughout the semester. Most of the quizzes will be announced; however, be aware that there *may be* some unannounced quizzes. The quiz will be graded out of a possible 10 points. The quizzes will come directly from assigned practice homework. (The lowest quiz grade will be dropped.)

- ◆ **Grading:** My grading scale is straightforward.
 - Average of the homework assignments: 12%
 - Average of quiz grades: 10%
 - Tests: 20% each
 - Applications Project: 8%
 - Final Exam: 10%

The final letter grade will be determined by the following scale:

A (93 and above), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (60-66), F (below 60).

Make-ups:

It is expected that you take each test on the scheduled date at the time of your registered class. Make-up tests will only be given at my discretion. I understand that there will be instances in which “life happens”. In these rare cases, you must notify me **before** the test time (if possible) and **have a documented excuse**. By the way, “I am not ready” is NOT a valid excuse. In those instances where I allow a make-up test, the test **must** be taken *before the next class period* otherwise you will receive a 0 for that test. However, the final exam can be used to **replace** the lowest test grade if the final exam grade is higher.

Attendance Policy:

Students are expected to attend every class. I do not penalize your grade if you do not attend; however, I will take attendance each class period. At the end of the semester, I will use the attendance records to determine those “borderline” grades.

Disclaimer:

The instructor reserves the right to make necessary changes to this syllabus at any given time.

University Withdrawal:

The last day to withdraw with a grade of W is **March 9, 2011**. The grade of W may affect your scholarship or financial aid, so make sure to check on this before withdrawing.

Disabilities:

Any student with a special need for an accommodation in course activities should make arrangements with me. In addition, the student must register with Disability Services in the D.C. Culp Center, telephone 439-8346.

Academic Misconduct:

Academic misconduct will not be tolerated. Any student caught in academic misconduct will receive an F for the assignment or test.

Classroom Etiquette and Additional Information:

- ◆ Turn off all cell phones and beepers.
- ◆ Arrive to class on time. The quizzes will be given during the first 10 minutes of class. If you are not on time, you will not be given extra time to take the quiz.
- ◆ Do not use computers during class, unless the class as a whole is participating in computer work.
- ◆ Come prepared to ask for specific homework problems to be covered during the first portion of the class. If you do not ask, I will not go over the problems and they WILL be on the quiz.
- ◆ Do not carry on a conversation with fellow students during class as it disrupts everyone’s ability to learn.
- ◆ Please ask questions. Feel free to stop me during the lecture if you do not understand something. I will gladly go back over the concept or allow another student to explain the material in a way that may make more sense to you.
- ◆ For an extra point on homework, write “I have read the syllabus” on a piece of paper with your name on it and bring it to my office (NOT to class). Please be discreet.
- ◆ I am happy to answer any emails; however, it is ETSU policy that faculty are only allowed to respond to student emails which come from ETSU goldmail.
- ◆ This class moves quickly. Do not get behind. Please come see at the start of any difficulty.