

MATH 2010 Linear Algebra Spring Semester 2012

Instructor:

Dr. Michele L. Joyner
Mathematics and Statistics Department
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Office hours: T,Th: 3:45 – 4:45 and other times by appointment.

Meeting Place & Time:

T,Th: 12:45-2:05 Rogers-Stout Hall, Rm. 125

Course Description:

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

Textbook:

Larson, Falvo, *Elementary Linear Algebra*, 6th edition, Brooks/Cole, 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: February 14, 2012
 - Test 2: March 20, 2012
 - Test 3: April 19, 2012
- ◆ **Final Exam:** There will be one *comprehensive* final exam worth 100 points given on **Thursday, May 3, 2012** from 1:20-3:20.
You can replace your lowest test grade with the final exam grade if the final exam grade is higher.
- ◆ **Homework:** This is an important part of the course. 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. Some homework assignments may be assigned for a grade to turn in throughout the semester. Grades from these homework assignments will be averaged in with quiz grades.
- ◆ **Quizzes:** There will be several quizzes given throughout the semester. The quiz will be graded out of a possible 10 points. The quizzes will come directly from assigned homework. (The lowest quiz grade will be dropped.)
- ◆ **Grading:** My grading scale is straightforward.
 - Average of quiz grades: 15%
 - Tests: 20% each
 - Final Exam: 25%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).
- ◆ **Extra Credit:** There will be a research project (group or individual) worth up to 7 points on your lowest test grade. See the information and grading criterion on D2L. There may also be 1 credit point extra credit problems given throughout the semester to be added to your quiz grade.

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.

University Withdrawal:

The last day to withdraw with a grade of W is **March 7, 2012**. 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 act of misconduct must be reported in writing to both the student and the dean of the College of Arts and Sciences. The misconduct will then be investigated by the dean.

Classroom Etiquette and Additional Information:

- ◆ Turn off all cell phones and beepers.
- ◆ Arrive to class on time.
- ◆ 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.
- ◆ 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 me at the start of any difficulty.