

## **MAT 335-001: Linear Algebra - Matrices**

Fall 2010, TR 12:30-1:45PM, BH 208

**Instructor:** Dr. Dijana Jakelić

**Office:** Bear Hall 215

**Phone:** 962-3290

**e-mail:** [jakelid@uncw.edu](mailto:jakelid@uncw.edu)

**Office Hours:** TR 3:00-5:00PM and by appointment

**Text:** David C. Lay, *Linear Algebra and its Applications (3rd edition update)*, Pearson, 2006.

MAT 335 is a first course in linear algebra. The emphasis will be on the topics that are important for further work in mathematics and for applications. We will cover most of the first six chapters of the textbook. The material includes systems of linear equations, matrices, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues. Attention will be placed on the correct usage of the language of mathematics and basic proof techniques.

**Grading Policy:** Your course grade will be based on two midterm exams (25% each), the final exam (30%) and quizzes/assignments (20%). The grading scale will be the standard 10-points scale (90-100% A, 80-89% B, 70-79% C, 60-69% D) with + and – assigned at the discretion of the instructor.

**Exams:** The in-class midterm exams are scheduled for **September 30** (Thursday) and **November 4** (Thursday). A comprehensive final exam will be given on the date and at the time that is officially assigned – **December 9** (Thursday), 11:30AM -2:30PM. Please mark your calendars now and make sure that you are available to take the exams at the scheduled times. If you have any conflict with these times, make sure to let me know prior to September 10. No make-up exam will be approved at a later time, except for extremely urgent situations.

**Homework/Quizzes:** Homework is essential for learning the course material. It will be assigned weekly and it is your responsibility to do it in a timely manner. Every non-exam Thursday a short quiz will be given (based on homework covering the material done in the lectures the preceding week). Occasionally and without a prior announcement, a quiz will be replaced by a homework collection. Do your homework neatly and have it ready for collection every Thursday. Also, a few pop-up quizzes may be given during the semester. Neither make-up quizzes will be given nor late assignments will be accepted. The lowest quiz/homework score will be dropped to allow for illness or other personal concerns.

**Attendance:** Regular and punctual attendance is expected and required. If you must miss a lecture, it is your responsibility to find out *everything* that happened the day you missed, whether from another student or from me. That includes not only the lecture material, but any administrative matters I may have discussed. If you must be late for class, you may enter quietly and with as little distraction to others as possible.

**Learning Center:** The University Learning Center provides drop-in tutoring during open Learning Lab hours for all UNCW students in Math and Statistics courses. For details see Math Services webpage at <http://www.uncw.edu/stuaff/uls/math.htm>.

**Academic Honor Code:** Complete academic honesty is expected from all students in accordance with the *UNCW Student Handbook and Code of Student Life*.

**Students with Disabilities:** If you have a disability and need reasonable accommodation in this course, you should inform the instructor of this fact in writing within the first week of class or as soon as possible. If you have not already done so, you must register with the Office of Disability Services in Westside Hall (extension 3746) and obtain a copy of your Accommodation Letter. You should then

meet with your instructor to make mutually agreeable arrangements based on the recommendations of the Accommodation Letter.

**Study Hints:** To do well in this course it is essential to study and work out the homework problems on a *regular* basis, that is, to develop a routine. Come to lectures regularly (it is assumed that you are doing so) and take notes -- the lectures may or may not follow the presentation in the textbook. After each lecture, read the corresponding section from your notes and the book *before* you start doing the homework problems. Make sure to pay attention to the correct usage of the language of mathematics. You are encouraged to check your answers with others and to discuss difficult problems, but it is imperative that you first attempt to do all of the problems on your own. Work extra problems. Do not stop working when you think you understand the material. Stop when going through the problems seems to be a matter of routine and when you have a high confidence that your answers are correct. Take advantage of the Learning Center and my office hours. Please do not hesitate to ask for help as soon as you encounter difficulties in understanding the material. Also, feel free to talk to me about any course-related concerns you may have.

*Good luck!*