| | |
|---|---|
| Classroom: | Tues/Thurs 3:30-4:50 pm in PKH 305 |
| E-mail/Web: | vancliff@uta.edu http://www.uta.edu/math/vancliff/T/F09 |
| Office Hours: | Tues/Thurs 1:15-1:50 pm in PKH 462 & Tues/Thurs 4:50-5:20 pm in PKH 305 or PKH 462, or by appointment |
| Textbook: | Linear Algebra with Applications, 4th Ed, O. Bretscher, Prentice Hall. |
| Calculator: | only calculators such as TI-30XA or TI-30XIIS with basic computational features, such as arithmetic and transcendental functions are allowed. Calculators with the following features are NOT allowed: graphing, equation solving, differentiation & integration; any device that has internet or e-mail capabilities – this includes cell phones – and any devices with a QWERTY keyboard are also not permitted (use of such a device on a test will disqualify that test). |
| Tests: | • three comprehensive 50-minute **tests** on Thurs Sept 17, Thurs Oct 15 & Thurs Nov 19 in class in PKH 305;<br>• one comprehensive **Final** examination on Thurs Dec 10, 2:00-4:30 pm in PKH 305.<br>Make a note of these dates!! Bring UTA photo ID to all tests. |
| Weighting: | Test 1 = 15%, Test 2 = 25%, Test 3 = 25%, Final = 35%.<br>**Scoring below 40% on the Final will prevent you from earning a grade of C or higher in the course.**<br>To compute your course grade, I will curve each test separately. This way, your grade on each test is what counts and not your numerical score. I will grade all the tests. Attendance and participation are also considered in computing your course grade (e.g., if a student's grade is borderline between one grade and another). Attendance will be recorded from approximately Sept 3 onwards. |
| Important Dates: | Wed Sept 9 = Census Date<br>Fri Oct 30 = last day to drop course with W (see page 3),<br>Thurs Nov 26 - Sun Nov 29 = Thanksgiving Holiday,<br>Thurs Dec 3 = last lecture, **test dates given above**. |

EXPECTED LEARNING OUTCOMES

Upon completion of Math 3330, students should be able to do the following: solve systems of linear equations without the aid of a calculator and interpret the results geometrically; give the geometric meaning of linear transformations and express them in different coordinate systems; calculate the kernel, range, determinant, eigenvectors and eigenvalues of a linear map; identify a basis of a vector space, and solve problems involving orthogonal projection and orthonormal bases. Additionally, students should be able to justify and explain their steps in problem solving; in particular, students should be able to construct correct and detailed mathematical arguments to justify their claimed solutions to problems.

ATTENDANCE

Attendance is required. You are responsible for any and all announcements made in class and on my website (given above). You are responsible for any and all material missed during lecture.

HOMEWORK

With each lecture, you will be assigned a set of homework problems. The homework will not be collected; it is assigned to help you learn the material and prepare for the tests. The tests will be designed to determine whether you have mastered the ideas in the homework and in the lectures. You should plan to spend a minimum of 6 hours per week on this course outside lecture. You should spend that time reading your lecture notes, working the homework, working self-assigned practice tests, etc. See page 4 for techniques on how to study.

HELP OUTSIDE CLASS TIME

My office hours are given above. These are times when I will be available to discuss the material/homework/tests. No appointment is necessary for those times. If, however, those times are inconvenient for you, then make an appointment with me for another time (e.g., e-mail me stating the times you prefer). The best use of my office hours is by asking me questions about the homework or lecture notes or past tests. Try to formulate your math questions BEFORE you come, and write them down. If you are organized, then you could e-mail me your math questions in advance, which will help you formulate them.

Tutoring (at cost) is available at the SOAR Office in Hammond 132 and at the Science Learning Center in Life Science 106. A list of tutors is available from the Math Department Office but note that this list is not endorsed by the Math Department. If we are assigned a GTA, then I will notify you of that information and his/her office hours.

My website (given above) will list the homework as the semester progresses as well as other miscellaneous information pertinant to this course. You are advised to check it every couple of days.

DISABILITY ACCOMMODATIONS

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112 — The Rehabilitation Act of 1973 as amended. With the passage of the Americans with Disabilities Act (ADA), pursuant to Section 504 of the Rehabilitation Act, there is renewed focus on providing this portion of the population with the same opportunities enjoyed by all US citizens. In particular, students in this situation who desire accommodation should **notify me informally this week**, and notify the Disabilities Office as soon as possible with official authorized documentation; the Disabilities Office will give you documentation to give to me that will authorize me to provide accommodation and inform me of the nature of the accommodation.

CONFLICT WITH EXAMINATION DATES

Your personal commitments (e.g., job) must accommodate the test dates/times. For a UTA-recognised excusable event in conflict with a test, you must give me written notice at least two weeks prior to that test. Students who miss a test for an unavoidable UTA-recognised event (such as hospitalization) may be considered for an accommodation. For any accommodation to be considered, documentation explaining the reason for missing the test will be required. Students who miss tests due to UNauthorized reasons (e.g., car breaking down) will NOT be accommodated.

DISTRACTION IN THE 21ST CENTURY!!

Cellular phones should be SWITCHED OFF during all classes & all tests. If you NEED to use your cellular phone for an URGENT reason during class, you may leave the room to talk & return to class when you are done. If you leave class for a nonurgent reason, the class & I prefer that you do not return, & I will subtract your name from the attendance sheet. During tests, your cellular phone should be out of sight. If you need to use your cellular phone for any reason during a test, then you may leave the room to talk, but **you will not be allowed to continue the test**.

The University reserves the right to impose disciplinary action for any kind of infraction of University policies. Engagement in conduct which disrupts, obstructs or interferes with activities authorized by the University will result in disciplinary action against the perpetrator(s). Such action includes leaving and returning to the room frequently.

DROP POLICY

The last day this semester to drop a course is Friday Oct 30 at 5 pm. Any student who drops the course on or before that date will receive a W. **Students must contact an advisor in their major in order to drop a course.**

TUITION NONPAYMENT

If you are dropped from this class for non-payment of tuition, you may secure an Enrollment Loan through the Bursar's Office.

GRADE–REPLACEMENT & GRADE EXCLUSION POLICIES

These policies are described in detail in the University catalog and can also be found online at http://www.uta.edu/catalog/general/academicreg . The deadline for filing a grade replacement request is Census Date, Sept 9.

SCHOLARLY INTEGRITY

It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline includes suspension or expulsion from the University and a grade of FAIL in the class given to involved student(s). Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22 of the Regents' Rules and Regulations states the following. "Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or material that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts".

Photo-ID is REQUIRED at all tests. The University has informed all its faculty that steps should be taken to discourage cheating on tests. As such I will uphold the following during the tests:

- if you wish to leave the room during a test, you should ask permission first and turn in your test to me — only in exceptional circumstances will I let you continue the test should you return (so it is better to be 3 minutes late to the test, rather than ask to go to the restroom during the test);
- if you finish a test early but prefer to stay in the room, then you should NOT get out any work, book nor item, no matter what the subject matter is.

Remember, in any test, keep your eyes on your own work only.

STUDY TECHNIQUES

See the website http://www.uta.edu/math/vancliff/T/S09/1426study.pdf for a list of study techniques for calculus students; many of those study techniques apply to studying the material in this course.

---

Homework from Chapter 1

- Read lecture notes & §1.1 & do 2, 11-13, 16, 17, 27, 29, 36, 44, 48.
- Read lecture notes & §1.2 & do 1-4, 6, 8, 18, 24, 25, 41, 46.
- Read lecture notes & §1.3 & do 1-7, 9-20, 25, 27, 28, 34, 36, 57-59.
- Pages 38 & 39 (true/false questions): do 1-12, 19, 23, 39, 43.