Classroom: Tues & Thur 2:00-3:20 pm in PKH 309
Contact Data: PKH 462, 817-272-3932, vancliff@uta.edu
Web: http://www.uta.edu/math/vancliff/T/S12
Office Hours: Tues & Thur 3:30-4:20 pm in PKH 462, or by appointment
Prerequisite: A, B or C in Calculus I; Calculus II strongly encouraged
Test dates: Test 1: Thurs Feb 2 (15 minutes) = 10%
          Test 2: Tues Feb 21 (20 minutes) = 15%
          Test 3: Tues Mar 20 (20 minutes) = 15%
          Test 4: Thurs April 12 (60 minutes) = 25%
          Final Test: 2:00-4:30 pm on Tues May 8 = 35%.
          All tests are comprehensive. Make a note of these dates NOW.
          Bring photo ID to all tests.
Weighting: Each test will be curved separately and its grade (not score) will contribute to your course grade. Good attendance & participation will help your course grade if your grade is borderline.
Note: any student not obtaining a positive score on the Final examination will not pass this class.
Important Dates: Wed Feb 1 = Census date
                  Tests (see above): Feb 2, Feb 21, Mar 20, Ap 12, May 8
                  Mar 12-16 = Spring Break (holiday)
                  Fri Mar 30 = official last day to drop (with W)
                  Thurs May 3 = last day of class.

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.
You should expect the material to be more abstract than calculus; this is to prepare you for higher-order thinking needed in your future classes and career.

HOMEWORK
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. Indeed, at least half of each test will be based on homework problems. Some reading might also be assigned, due to the amount of material that we need to cover.
CALCULATORS
No calculator is allowed on any test, so it is best not to use one on the homework.

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.

HELP OUTSIDE CLASS TIME
Feel free to ask me relevant questions during class, after class and in office hours. You can also e-mail me your questions, or ask me to look over your solution to a homework problem. My office hours are times I am planning to be in my office where you can drop by without an appointment to ask me questions.

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.

My web page (given above) will list the homework as the semester progresses as well as other miscellaneous information pertinent to this course; you are advised to check it every couple of days.

HOW TO DO WELL IN THIS COURSE
You are expected to spend at least 6 hours/week on this course outside class time. The best way to guarantee a good grade in this course is to take good lecture notes and to read them over after class, and to do ALL the assignments on a regular basis (this is your brain exercise!) and to discuss the material with each other. After completing any one assignment, put together a list of the ideas you have learned in doing that assignment; keep your list as help when you study for the tests. See page 4 for techniques on how to study.

Without a good understanding of the material in this class, you will have trouble with your future studies in mathematics, physics, statistics, computer science and engineering; this course is a stepping stone for all other science-based classes.

CONFLICT WITH EXAMINATION DATES
Students who miss tests due to UNauthorized reasons will NOT be accommodated. In particular, your personal commitments (e.g., job) must accommodate the test dates/times.

If you have a conflict with a test, or if you miss a test, you should contact me as soon as possible (in person, by e-mail, or by phone (leave a message on my answering machine (NOT with the math office) if I am not there)). If you miss any test for an authorized reason which can be verified with official documentation (e.g., hospitalization), then accommodations will be offered (no make-up tests). Any student not earning a positive score on the Final examination for this class will not pass this class.

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.
DROP POLICY

The last day this semester to drop a course is Friday Mar 30 at 5 pm. Any student who drops the
course on or before Mar 30 will receive a W. Students must contact an advisor in their major in
order to drop a course, and I recommend those interested in this should see their advisor at least a
few days before Mar 30 to allow time to obtain necessary signatures.

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
that will authorize me to provide accommodation and inform me of the nature of the accommodation.

GRADE-REPLACEMENT & GRADE EXCLUSION POLICIES

These policies and deadline dates are described in detail online at
http://wweb.uta.edu/ses/recordsandregistration/content/student_services/grade_exclusion.aspx & at
http://wweb.uta.edu/ses/recordsandregistration/content/student_services/grade_replacement.aspx.

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:

• all items not needed for the test should be placed on the floor by the wall;
• 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.
DISTRACTION IN THE 21ST CENTURY!!

Cellular phones should be SWITCHED OFF during all classes & all tests. Cellular-phone use, texting, e-mailing, and web surfing are not permitted in class unless permission explicitly given by me. 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 students & I prefer that you do not return, & I will subtract your name from the attendance sheet. During tests, your cellular phone should be switched off and with your belongings by the wall. 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 able 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 conduct includes leaving and/or entering the room during class.

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. Moreover, additional resources that might be helpful in studying for this class are given at my website.

HONORS CREDIT

Students wishing to earn honors credit for this course should consult my website as soon as possible. In particular, a list of acceptable projects (with deadline dates) is given at my website.

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.

See http://www.uta.edu/math/vancliff/T/S12 for homework as semester progresses.