

Math 3319-002 – Differential Equations and Linear Algebra

Spring 2014

INSTRUCTOR:	Yonghua Yan	PHONE:	(817) 272-0390
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OFFICE HOURS:	WeFr 2:00 PM-4:00 PM	OFFICE:	453 Pickard Hall

Textbook: Differential Equations and Linear Algebra, Third Edition, by Stephen Goode, and Scott Annin.

Days & Times: *Tue. & Thu. 9:30AM - 10:50AM, PKH 113*

Prerequisite: C or better in MATH 2326 or concurrent enrollment

Expected learning outcomes: Upon completion of Math 3319, the students should have a solid knowledge of the material including (but not limited to) the topics outlined below:

1. First Order Differential Equations	5. Linear Transformations
2. Matrices and Systems of Linear Equations	6. Linear Differential Equations of Order n
3. Determinants	7. Systems of Differential Equations
4. Vector Spaces	8. The Laplace Transform

Sections to be covered:

Chapter 1	1.1, 1.2, 1.3, 1.4, 1.6, 1.8	Chapter 5	5.1, 5.3, 5.6
Chapter 2	2.1, 2.2, 2.3, 2.4, 2.5, 2.6	Chapter 6	6.1, 6.2, 6.3, 6.5
Chapter 3	3.1, 3.2, 3.3, 3.4	Chapter 7	7.1, 7.2, 7.3, 7.4, 7.9, 7.10
Chapter 4	4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Chapter 8	8.1, 8.2, 8.4

Attendance: To succeed in this class it is strongly recommended that you attend every class. A missed exam cannot be made up.

Grading: A = 90+; B = 80-89; C = 70-79; D = 60-69; F = 59-

Descriptions of major assignments and examinations:

- Three 20-minute quizzes (30%): Each quiz will be given during a class period;
- Two Mid-Term Exams (40%): Each mid-term exam will be given during a class period and you will have 80 minutes to take it. Exams will be made up of questions similar to the assigned homework problems. Make-ups for the exam will be given only for the university approved absences, and should be discussed prior to the exam.
- One comprehensive Final Examination (30%)
- 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 will also be assigned, due to the amount of material that we need to cover.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://web.uta.edu/ses/fao>).

Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any

student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Academic Integrity: All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Instructors may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory shall be directed to complete a Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Course Schedule.

Quiz 1-3	Depend
Mid-Term Exam 1	The 3 rd week of Feb.
Mid-Term Exam 2	Depend
Final Exam	May 9.

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Yonghua Yan

Important Dates (2014):

January 13th: First day of classes

January 13th-17th: Late Registration

January 29th: Census Day

March 28, 5pm: Official last day to drop courses

May 2 – Last day of classes

May 4th-10th: Final Exams