

Course Syllabus Math 1316-001
MATHEMATICS FOR ECONOMICS AND BUSINESS ANALYSIS
MoWeFr Fall 2015

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TEXT: Mathematical Applications for the Management, Life, and Social Sciences; Revised 11th edition; Custom Edition for University of Texas at Arlington, Harshbarger & Reynolds; ISBN # 978-1-305-74524-7

Course Learning Goals/Objectives: To develop mathematical tools that are useful in analysis of business and economics problems. The topics include: Differential and Integral calculus. After this course, the students should have an understanding of, Differential and Integral calculus sufficient to apply to real problems in Business and Finance. Chapters 9, 10, 11, 12, 13 will be covered. **Course Prerequisites:** Math 1315 or equivalent.

OFFICE HOURS: 10:00 – 10:50 am MoWeFr

Homework: Homework will be assigned on a daily basis. Assigned problems will be listed on an assignment sheet located on Blackboard. Homework **will not be taken up and graded** but will be gone over at the end of lectures if there is time available. The answers to the assigned problems can be found at the back of the text since the problems assigned are odd problems. You will also be given a class key you can use to gain access to online homework assignments located at www.webassign.com. The online homework assignments are roughly equivalent to the homework problems assigned from your text. You can either elect to do the online homework assignments, the problems from your text assigned on the assignment sheet, or a combination of the two. **No matter which you elect to do (online homework or assigned problems from the text book) all homework is simply for practice and will not be turned in for a grade.** Your grade will be determined from your quiz grades, major test grades, final exam, and assigned extra credit opportunities. Homework needs to be done in order to be successful in this class. All tests and quizzes will be based on the assigned homework problems and **if you can do the homework you should be able to do well on them.**

Quizzes: There will be **weekly quizzes** given. **All quizzes will be of a multiple choice format and a scantron form 815-E will be required for all quizzes. Students need to provide their own scantrons for quizzes.**

Quizzes will be open book and open note. They will be no more than 4 or 5 questions and usually last no more than 10 minutes. Half of each quiz grade will be based on participation. Thus the minimum grade that can be earned on any quiz taken by a student will be a 50. If a student fails to take a quiz however they will be assigned a grade of 0 on the quiz not taken. **The 3 lowest of the quiz grades will be dropped. The remaining quiz grades will be averaged and this average will count as a 4th major test grade. No make-ups will be given for quizzes** regardless of the reason for missing the quiz. If you miss a quiz you must use it as one of your 3 dropped quiz grades.

Tests: There will also be **3 major tests** given in this class. The approximate dates for these tests are:

September 30: covering sections 9.1 – 9.9 on the assignments sheet

October 28: covering sections 10.1 – 11.5 on the assignment sheet

December 2: covering sections 12.1- 13.6 on the assignment sheet

[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.] **All tests will be of a multiple choice format and a scantron form 882-E will be required for all tests. Students need to provide their own scantrons for tests.**

Tests will be closed book but calculators and a 4 by 6 note card will be allowed. A detailed review sheet will be provided on Blackboard for each major test. This review sheet will include a practice test and solutions will be

provided for the practice test. If you have been able to work the homework problems, done well on quizzes, and can work the problems on this practice test, you should do well on the actual test. The average of your remaining quiz grades will serve as a 4th major test grade.

Grading: The **lowest of the 4 major test grades will be dropped. The average of the 3 remaining test grades will count 70% and the final exam will count 30%. The final exam cannot be dropped.** Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels.

Calculators: A good scientific calculator or a graphing calculator is needed for this class. **You will not be allowed to use a TI-30X Pro, your cell phone, laptop calculator, or any calculator that has texting capability on a test or quiz.** [Otherwise you can use whatever calculator you prefer.]

Bonus Problems: Bonus problems will be given periodically throughout the semester. Points awarded for these bonus problems will be added onto the next upcoming major test. No bonus problems will be allowed to be turned in late.

Attendance: At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section attendance will not be taken on a daily basis and will not factor attendance into the grade" but in order to do well students need to plan to attend lecture and labs on a regular basis. The course is comprehensive and it will be hard to catch up if you fall behind.– You are also responsible for keeping up with all major test dates. We will attempt to stay on schedule but occasionally we might get behind and have to catch up later. Changes in schedule will be posted on Blackboard.

Make up Tests: **No make-ups will be given for quizzes.** If you miss a quiz you must use it as one of your 3 dropped quiz grades. **Neither will make-ups normally be allowed for major test grades** unless you miss the test due to participation in a sport or other campus activity to which I have been given documentation verifying the conflict or if a doctor's excuse is provided which clearly indicates that the student is too ill to attend class. If you miss a test due to an above mentioned conflict it is up to you to e-mail me and arrange to makeup the test **prior to the start of the next regularly assigned class period.** Anyone can arrange to take a test early if they know they are going to have to be absent for a justifiable reason. Otherwise if you miss a major test the grade, it will have to be used as your one dropped test grade. Anyone who misses more than one test grade needs to make an appointment to talk to me during office hours.

Blackboard: We will be making heavy use of Blackboard in this class. Copies of our syllabus and assignment sheet will all be located here under the syllabus section. In addition under the course content section students will find copies of review sheets for tests. Quiz and test grades will also be posted here. **Students should periodically log onto Blackboard in order to check on their grades.** To access the course, go to <http://elearn.uta.edu/> or click on the Blackboard link located on the UTA student home page and log in with your NetID and password. Click on the name of the course in the upper left module after logging in. **Students need to e-mail me if they have any questions about their grades. All graded papers returned to students should be kept in a safe place until the end of the semester in case they are ever needed to resolve a grade dispute.**

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://www.uta.edu/ses/fao>). The last day for students to drop is Wednesday **11/04/2015**.

Final Exam: There will also be given a **comprehensive departmental final exam**. The date for the final exam is **Saturday December 12, 2015**. This date needs to be kept open for the final so put it on your calendars and schedule around it. **Makeups for the final will only be granted on a limited basis and only when written documentation verifying the need for the makeup is provided.** The exact location for the final exam will be announced in class at a later date.

NEED HELP: 1) **Math Clinic –located on 3rd floor PKH**
2) **See me during office hours or by appointment**
3) **A list of private tutors may be found in the Math Office or Cost Share Tutoring is provided by the university if you call 817-272-2617.**

Supplementary Information:

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 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.

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 may include suspension or expulsion from the University.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials 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." (Regents' Rules and Regulations, Series 50101, Section 2.2)

Student Support Services Available:

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.

Final Review Week:

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Electronic Communication Policy:

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>

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

Title IX: The University of Texas at Arlington is committed to upholding U.S. Federal Law "Title IX" such that no member of the UT Arlington community shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. For more information, visit www.uta.edu/titleIX