

Math 1315 – College Algebra for Economics and Business Analysis – Section 003



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Office Phone: 817-272-7137 (email is preferred)

Office Hours: M-R 12:30 – 1:30pm (additional hours by appointment)

Scheduled Meeting Times and Locations

TR 2-3:20 in 110 Pickard Hall (PKH)

Textbook and Materials

TEXT: 1. **Workbook by Shanna Banda:** The combo Math 1315/1316 edition entitled Algebra & Calculus for Economics & Business. It is loose-leaf and sold in the UTA bookstore, **AND**

2. **Choose one of the following options:**

a. **Access Card and Textbook Bundle:** Applications in Mathematics; Custom Edition for University of Texas at Arlington, ISBN # 1-323-48769-7. Contains MLP access code.

b. **Access Card Only - Access Code for MyLabsPlus:** Purchase your stand-alone access code at the UTA bookstore— or purchase online at www.uta.mylabsplus.com on the first class day. There is a free E-book within the MLP website

3. Four Scantron forms: Scantron Form No. 882-E (green)

Calculator Policy

Students may use a basic scientific, basic financial, or TI-82, 83, or 84 calculator on exams. See the recommended list below. Students may NOT use TI-30X Pro, TI-36X Pro, other graphing calculators, and calculators with QWERTY pad, communication-capable calculators, phones or other electronic devices.

TI-30X-IIS, TI-30Xa, TI-30XS (not the Pro), TI BA II Plus, TI-82, TI-83, or TI-84 (Plus is ok),

Casio fx-82M-S, Casio fx-85M-S, Casio FC-200 Financial Calculator,

Sharp EL-531, Sharp EL-738C Financial Calculator, or Datexx DH-170FS EZ Financial Calculator

Course Elements

Attendance Policy

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, I have adopted the following attendance policy. Attendance will be assessed daily and will contribute to the students' course grade.

Course Schedule of Lessons and Exam Dates

The **Course Schedule** located in Blackboard provides a calendar of lecture topics and exam dates. Homework due dates are posted in **MyLabsPlus**. **All due dates are in Central Time.**

Grade Calculation

Attendance, Homework, Exams	Percent of Grade
Attendance	5%
Homework	15%
Regular Exams (Average of 3)	50%
Comprehensive Final Exam	30%
Total:	100%

Grading Scale

Grades will be computed based on the following distribution. Grades are rounded up accordingly.

90 — 100%	A
80 — 89%	B
70 — 79%	C
60 — 69%	D
Below 60%	F

Homework

All homework will be assigned in MyLabsPlus.

- **NO late homework will be accepted**, so watch the due dates on MyLabsPlus. You will receive a zero for any assignments not submitted.
- There is a homework assignment covering each section of material.
- Homework assignments are set for unlimited access up until the due date and you have 3 attempts per question.
- All homework assignments contain learning aids to help you through the material, including opportunities to practice another version of a question.
- If you have trouble completing the assignments, please seek some form of tutoring and/or see your instructor for assistance.
- The two lowest homework grades will be dropped at the end of the semester.

Exams

There will be three proctored exams throughout the course of the semester. (Please reference the Course Schedule for exact dates.)

- All exams will be administered during class time and must be completed within 50 consecutive minutes.
- You must bring your MavID and a Scantron Form No. 882-E (green) to each exam. You may also bring one 3"x5" index card with notes front & back and an approved calculator (see list of approved calculators in Materials section). Blank scratch paper will be provided. No additional materials are allowed.
- You may not leave the room during an exam.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

Final Exam

The final exam is a comprehensive, proctored exam containing material from all sections covered over the course of the semester. (Please reference the course schedule for the exact date and time.)

- You must bring your MavID and a Scantron Form No. 882-E (green) to the final exam. You may also bring two 3"x5" index cards with notes front & back and an approved calculator (see list of approved calculators in Materials section). Blank scratch paper will be provided. No additional materials are allowed.
- The final exam will be taken in a location to be announced at least 1 week in advance.
- You may not leave the room during an exam.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

Makeup Policy

In addition to the policy that NO late homework will be accepted (see Homework), **there are no make-up exams**. If you know ahead of time that you are going to miss class for a legitimate reason, it is your responsibility to inform me and make the necessary arrangements. If you have a conflict with a scheduled exam due to a school sponsored or excused event, you **MUST** have documentation and you **MUST** arrange to take the exam **BEFORE** you leave. To request an alternate test date because of an approved conflict, please fill out the **Alternate Test Date Request Form** which can be found in Blackboard. You must either submit the form directly to me during class or office hours or email the form along with the necessary documentation at least two weeks prior to the first exam. A request for a rescheduled exam will only be considered in rare, documentable, and verifiable instances. The decision to grant an alternate test date will be at the sole discretion of the instructor and/or course coordinator.

Announcements: Found in *Blackboard*.

- Students are responsible for all information found in these announcements.
- Students should check for new announcements at least twice a week.

Help for Students

- Emporium Lab Tutors Pickard Hall 308 – Visit <http://www.uta.edu/math/emporium/> for more information.
- Math Clinic – located in Pickard Hall 325, offers free daily help.
- Supplemental Instruction – information is found within a tab in your Blackboard course.
- SOAR is a cost/share tutoring service Ransom Hall 205.
- Maverick Resource Hotline (817-272-6107).
- Online help: khanacademy.org.

Students are encouraged to install or update (free download) the following software:

- Adobe Flash Player version 11.9 or higher
- Adobe Reader version XI or higher

Course Objectives

Course Catalog Description

This course presents material covered in a traditional algebra course but with emphasis toward business applications. Topics include linear equations, systems of linear equations, systems of linear inequalities, elements of matrix algebra and probability.

Learning Objectives and Outcomes

After completing the course, students should be able to demonstrate the following competencies:

- 1.0 Students will be able to perform integer operations and evaluate expressions containing variables, exponents, radicals, and fractions.
- 2.0 Students will be able to factor and perform operations on polynomials.
- 3.0 Students will be able to analyze and solve linear equations, inequalities and functions in a variety of business applications including revenue, cost, and profit scenarios.
- 4.0 Students will be able to solve quadratic equations using various techniques, graph quadratic functions, and determine break-even, maximum, and/or minimum points with respect to revenue, cost and/or profit functions.
- 5.0 Students will be able to evaluate, solve and use exponential and logarithmic equations and functions to model various economic phenomena.
- 6.0 Students will be able to apply various financial formulas and methods to determine interest, future value of savings plans and loans as well as debt repayment.
- 7.0 Students will be able to generate and solve systems of linear equations in a variety of business applications, including the use of matrix operations.
- 8.0 Students will be able to use graphical methods to solve linear inequalities and apply linear programming techniques.
- 9.0 Students will be able to calculate and solve various probability problems using tree diagrams, Bayes' formula, permutations and combinations.

Course Policies

Attendance Policy

- As the instructor of this section, I will take attendance by using a sign-in sheet.
- Poor attendance usually results in lower grades, so students who do not attend class, as a rule, are not successful.

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/aao/fao/>).

Drop Date

- Wednesday, November 2 by 4 pm.

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>.

START STRONG Freshman Tutoring Program

- **University Tutorial and Supplemental Instruction (UTSI)/University College**
- All first time freshmen can receive five FREE hours of tutoring for this course and other selected subjects for this semester. **Students must sign up and complete their first hour of tutoring by September 23, 2016.** To sign up, visit UTSI in 205 Ransom Hall/University College. Upon completion of your first tutoring appointment, you will receive five hours of additional free tutoring. Flexible tutoring hours are available from 7:00am – 9:00pm, seven days a week at secure locations on campus. All tutors receive extensive training. Find out more at www.uta.edu/Startstrong
- The Math Department operates the **Math Clinic**, a free tutoring service staffed by upper level undergraduate students. The Math Clinic is on the 3rd floor of Pickard Hall; the phone number is 817-272-5674; and the hours of operation for fall and spring are

Monday – Thursday	8 am – 9 pm
Friday	8 am – 1 pm
Saturday	1 pm – 6 pm
Sunday	1 pm – 9 pm

- Go to the Math Clinic webpage <http://www.uta.edu/math/clinic/> to get more information or to access assignment sheets for the courses for which tutoring is offered.

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. Student responsibility primarily rests with **informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.**

- If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

Counseling and Psychological Services. (CAPS)

- www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy

- *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos. For information regarding Title IX, visit www.uta.edu/titleIX.*

Title IX Policy

- The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.*

Academic Dishonesty

- 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.*
- UT Arlington faculty members 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.

Grade Replacement and 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/content/general/academic_regulations.aspx#10
- (Scroll about half way down the page).

Student Disruption

- The University reserves the right to impose disciplinary action for an infraction of University policies. For example, engagement in conduct, alone or with others, intended to obstruct, disrupt, or interfere with, or which in fact obstructs, disrupts, or interferes with, any function or activity sponsored, authorized by or participated in by the University.

Campus Carry

- Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey

- At the end of each term, students enrolled in face-to-face and online classes categorized as "lecture," "seminar," or "laboratory" are directed to complete an online 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 via the SFS database is aggregated with that of other students enrolled in the course. Students' anonymity will be protected to the extent that the law allows. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit <http://www.uta.edu/sfs>.

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.

Emergency Exit Procedures

- Should we experience an emergency event that requires us to vacate the building, students should exit the room exit the room and take an immediate right or left, walk down the hallway toward the corner of the building and descend the stairs. 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 individuals with disabilities.
- Students are encouraged to subscribe to the MavAlert system that will send information in case of an emergency to their cell phones or email accounts. Anyone can subscribe at <https://mavalert.uta.edu/> or <https://mavalert.uta.edu/register.php>

Student Support Services

- [Required for all undergraduate courses] 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 <http://www.uta.edu/universitycollege/resources/index.php>.

The IDEAS Center (2nd Floor of Central Library)

- offers **free** tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593

“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.” – Shelley Hamilton

