

## Math 1302 – College Algebra – Section 250



### Course Instructor

Esteban Diaz

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The instructor will respond to email inquiries within 24-48 hours.

Mentis Faculty Profile: <https://mentis.uta.edu/explore/profile/esteban-diaz>

Office: PKH 436

Office Phone: 817-272-5516

Office Hours: TBA

Lab Hours: From your calendar

### Mathematics Learning Resource Centers

Email: [mathLRC@uta.edu](mailto:mathLRC@uta.edu)

Computer Lab Website: <http://www.uta.edu/math/LRC/>

Clinic Website: <http://www.uta.edu/math/clinic/>

Facebook: <https://www.facebook.com/UTA-Learning-Resource-Center-460329394127443/>

### Math Department Office

Pickard Hall 478

Phone: 817-272-3261

### Textbook and Materials

This course is part of the UTA Mathematics Department Affordability Campaign, making state-of-the-art online mathematics resources available to our students at the lowest possible price when compared to purchasing elsewhere. To receive the discounted price, purchase course materials through the UTA Bookstore. Search by course or use this site: <http://bit.ly/2tQ090S>

1. **E-text and Direct Access (Required):** Your course materials include the e-version of the course text as well as MyLab course access which is designed to enrich student success by providing instant feedback on your assignments plus on-demand access to personalized study plans, a multimedia library, practice tests, and more. The e-texts may be downloaded on multiple devices with long-term access for each student. Every student has trial access to MyLab course materials as soon as the course is available in Blackboard, so you can start working on your course even before you purchase the course materials! That said, students will need a verified purchase within the first two weeks of classes, otherwise, the access to your digital materials will freeze and your account will stay deactivated until the purchase is confirmed. During the purchasing process, please ensure you enter your name as shown on your UTA records along with your MAVS email address for proper processing.
2. **Workbook (Provided):** Guided notetaking and example problems to support your time spent in class.
3. **Loose-leaf Textbook (Optional):** You may choose to enhance your digital purchase and select a loose-leaf textbook for only \$25 from the [bookstore](#). Full details are available in Blackboard.

*Essentials of College Algebra*, 12<sup>th</sup> Ed. Lial, Hornsby, Schneider, and Daniels, Pearson Ed. Inc., 2019.  
ISBN: 9780134675022

4. **Web-Enabled Device:** Use your smartphone, tablet, laptop or other device to check-in at lectures for required attendance and to take in-class quizzes and earn Algebra Coins toward extra credit.
5. **3"x5" Index Cards:** In the event of a UTA Network disconnection during lecture, index cards may be used as a back-up for the web-enabled device.
6. **Scientific Calculator:** You may use a scientific calculator. See the Calculator Policy section for allowable models.

## Calculator Policy

Students may choose to use a scientific, non-graphing calculator on all assignments including unit exams and the final exam. If so, it MUST be one of the following models explicitly:

Texas Instruments 30X series: TI-30Xa, TI-30XIIS, TI-30XIIB, TI-30XS(Multiview)

Casio FX series: FX-300MS, FX-82MS, FX-85MS, FX-260SOLAR, FX-260SOLAR II

Sharp EL series: EL-501X, EL-531X

Canon F series: F-605, F-604, F-730SX, F-710

No variation of model will be accepted. This includes but is not limited to plus and pro models.

## Software and System Requirements

Mozilla Firefox and Google Chrome are the recommended and supported browsers for this course. The course also has the following options for system requirements:

- Windows 7.0 or higher
- Mac OS x 10.9 or higher

If working outside the lab, students are encouraged to use the Browser Check in Blackboard in order to check and/or update (free download) various software requirements including:

- Pearson LockDown Browser for Windows version 2.0.3.01 or for a Mac version 2.0.3.02

## Course Elements

### Scheduled Meeting Times and Locations

Lecture:

Lab:

### Attendance Policy

At The University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. 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 is mandatory and will be assessed at each lecture and lab meeting. The lecture session meets once a week for 1 hour and 20 minutes and the lab session meets 2 days per week, each for 1 hour and 20 minutes in the Math Learning Resource Computer Lab, 308 PKH. Students are expected to attend class/lab, be attentive, and participate in

discussions/activities. However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients “begin attendance in a course.” UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student a grade of F, faculty report the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Blackboard. This date is reported to the Department of Education for federal financial aid recipients.

- Upon entry into the lab, you will be required to log into an attendance tracking system using your MavID card. You will also be required to sign out when leaving the lab.
- Over the course of the semester, **in addition to lecture attendance, you are required to complete 30 hours of lab attendance/study time within the Math Computer Lab.** Lab hours should be completed throughout the course of the semester.

|                                     |                      |                                     |
|-------------------------------------|----------------------|-------------------------------------|
| Lab Hours Requirement               | At least 30 hours    | Worth 50% of Attendance             |
| Lecture Attendance Requirement      | At least 12 lectures | Worth 50% of Attendance             |
| <b>TOTAL ATTENDANCE REQUIREMENT</b> |                      | <b>Possible 100% for Attendance</b> |

- The attendance requirement is 5% of your overall course grade. By semester’s end, your attendance grade will be 0, 50, or 100, depending upon your lab and lecture attendance.
- You are solely responsible for your own attendance. If you miss a lab time, you will be allowed to make-up your time during open lab hours over the course of the semester. You will be provided with a lab schedule and information on how to check and keep up with your own hours.

## Schedule of Lessons and Exams

You must complete all assignments and exams by the due dates. Due dates are listed in the Course Calendar and in the Course Schedule located in Blackboard. **All deadline times are in Central Time.**

## Grade Calculation

| Assignments and Course Requirements  | Percent of Grade |
|--------------------------------------|------------------|
| Attendance                           | 5%               |
| Participation and Lab Activities     | 5%               |
| Homework                             | 10%              |
| Quizzes                              | 10%              |
| Readiness Exams (Average of 2 Exams) | 10%              |
| Unit Exams (Average of 3 Exams)      | 35%              |
| Signature Assignment Write-Up        | 5%               |
| Comprehensive Final Exam             | 20%              |
| Total:                               | 100%             |

- In the event you are not satisfied with one of the three unit exam scores, you may earn a retake by redeeming Algebra Coins. Only ONE retake on the exam of your choosing, either exam 1, 2, or 3, will be granted. The Readiness Exams are not eligible for a retake. Please reference the course schedule for specific retake dates. You MUST solicit and receive approval from your instructor prior to redeeming your Algebra Coins and taking your ONE retake exam. All retakes must be complete prior to the final exam. See Extra Credit for more details.

## Grading Scale

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

|                  |          |
|------------------|----------|
| <b>90 — 100%</b> | <b>A</b> |
| <b>80 — 89%</b>  | <b>B</b> |
| <b>70 — 79%</b>  | <b>C</b> |
| <b>60 — 69%</b>  | <b>D</b> |
| <b>Below 60%</b> | <b>F</b> |

## Readiness Exams and Assignments (Unit R)

All readiness assignments, assigned in Blackboard using My Lab, are available to you prior to the first class day. The automated system will provide feedback on assignments immediately upon submission.

- This course is designed to assist students with prerequisite material as the course progresses. Therefore, one of your first assignments is a Readiness Pre-test. This test does not count toward your overall average, but will determine the amount of readiness work you need to complete. Therefore it is advised to take this 40 question Pre-test seriously. Upon completion of the Readiness Pre-test you will have readiness work to complete to prepare you for the two Readiness Exams.
- A Lockdown program for your browser is required for the Readiness Pre-test. Be sure that you either complete these exams in the Math Computer Lab (PKH 308) or that you have administrative rights to the computer you are using in order to install this program. The program is a free download and easily installed through the Browser Check link provided in the Software Requirements tab in Blackboard. Tests cannot be opened, saved, and returned to at a later time.
- The readiness work assignments do not count toward your homework average. These assignments are personalized based on your Readiness Pre-test performance and are optional. Time spent on these assignments will assist you with the foundational material for this course as well as help you prepare for the Readiness Exams. Readiness assignments are set for unlimited access up until the due date and unlimited attempts per question. Completion of these assignments can earn Algebra Coins redeemable for extra credit options. See Extra Credit section.
- All readiness assignments contain learning aids to help you through the material. Be careful not to become overly dependent on these aids or you may not perform well on the exam. You have multiple chances at each question and to gain access to the next attempt once a question is marked wrong, simply select the “similar exercise” button at the bottom of the assignment screen.
- Once your personalized readiness work is complete, you will take each Readiness Exam found within Blackboard using MyLab. The first Readiness Exam covers chapter R and the second Readiness Exam covers chapter 1 material. Both Readiness Exams are comprised of 20 multiple choice and short answer questions that must be completed within 75 consecutive minutes. You may take each Readiness Exam at any time prior to their respective due dates on a first come, first serve basis in PKH 308. Exams cannot be opened, saved, and returned to at a later time. Exact dates and times of testing availability will be posted in Blackboard and on the Learning Resource Center website.
- You must have your MavID with you for the exam and will be required to sign in/out upon entering and exiting the lab. You may not leave the room during an exam.
- You may use an approved calculator (see list of approved calculators in Materials section), approved formula page, and blank scratch paper which will be provided. No additional materials are allowed.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

- Partial credit forms will be available for the Readiness Exams. Upon completion of each exam and after the last due date, you will be allowed to review your answers. At that time, you may fill out a partial credit form and request partial credit on up to 5 questions where you feel your work was partially correct by turning the form into your instructor or a lab assistant in the Computer Lab. You cannot earn credit for any problems not originally attempted and answered during the exams. See Blackboard for forms and additional details.
- If you have trouble completing the assignments, please seek some form of tutoring and/or see your instructor for assistance.

## Homework and Quizzes

All homework and quizzes will be assigned in Blackboard using MyLab. All homework and quiz assignments are available to you on the first class day. The automated system will provide feedback on assignments immediately upon submission.

- **NO late homework or quizzes will be accepted**, so watch the due dates on the calendar. You will receive a zero for any assignments not submitted.
- There is a homework assignment covering each section of material, a syllabus quiz, and 6 ten question content quizzes. Homework assignments starting with section 2.3 are set for unlimited access up until the due date. You may complete homework assignments a question at a time and you have 3 attempts per question. However, you only have two attempts at each quiz which have a 50 minute time limit and must be completed in their entirety once opened. Quizzes cannot be saved and resumed later.
- All homework assignments contain some learning aids including a Skill Builder to help you through the material. Be careful not to become overly dependent on these aids or you may not perform well on the exams. You have multiple chances at a question per attempt. To gain access to the next attempt once a question is marked wrong, simply select the “similar exercise” button at the bottom of the homework screen. Quizzes are designed to check your knowledge retention and therefore do not contain the learning aids except in review mode once the quiz has been submitted.
- A Lockdown program for your browser is required for all quizzes. Be sure that you either complete your quizzes in the Math Computer Lab or that you have administrative rights to the computer you are using in order to install this program. The program is a free download and easily installed through the Browser Check.
- If you have trouble completing the assignments, please seek some form of tutoring and/or see your instructor for assistance.

## Unit Exams

There will be three computerized proctored unit exams, in addition to the Readiness Exams, throughout the course of the semester. (Please reference the course schedule for exact dates.)

- All unit exams are found within Blackboard using MyLab. Exams 1, 2, and 3 are comprised of 20 multiple choice and short answer questions that must be completed within 75 consecutive minutes. Exams cannot be opened, saved, and returned to at a later time.
- You may use an approved calculator (see list of approved calculators in Materials section), approved formula page, and blank scratch paper which will be provided. No additional materials are allowed.

- All exams are taken in the Math Computer Lab (PKH 308) on the UTA campus during your regularly scheduled lab time. You must have your MavID or valid phot ID with you on exam day and will be required to sign in/out upon entering and exiting the lab.
- You may not leave the room during an exam.
- Partial credit forms will be available for unit exams. Upon completion of each exam, you will be allowed to review your answers. At that time, you may fill out a partial credit form and request partial credit on up to 5 questions by turning the form into your instructor or a lab assistant in the Computer Lab. You cannot earn credit for any problems not originally attempted and answered during the exam. See Blackboard for forms and additional details.
- Partial credit is not available on any retake of a unit 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 exact dates.)

- The final is found within Blackboard using MyLab and is comprised of 30 questions that must be completed within 140 consecutive minutes. The final cannot be opened, saved, and returned to at a later time.
- You may use an approved calculator (see list of approved calculators in Materials section), approved formula page, and blank scratch paper which will be provided. No additional materials are allowed.
- The final exam will be taken in the Math Computer Lab (PKH 308) on the UTA campus. Final exam dates will be added to the course schedule and announced at least one week prior to final exam week. You must have your MavID with you on exam day and will be required to sign in/out upon entering and exiting the lab.
- You may not leave the room during an exam.
- There is no partial credit for the final exam.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

## Signature Assignment Write-Up

During this course, you will be required to choose one of the advanced questions provided within a prompt to complete a Write-Up assignment. This Signature Write-Up assignment will consist of a one to two-page essay describing the necessary skills and the process for accurately completing the chosen question. Specific emphasis will be placed on your ability to draw conclusions and effectively communicate your method. Essays must include a personal reflection linking the skills learned in this course to the chosen real-world application. This assignment will assess the following skills:

- Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

The write-up will be submitted electronically through Blackboard. An initial submission of this assignment will require a peer review. Both your participation in the peer review process and a final submission of your write-up will be graded. Additional details will be provided within Blackboard.

### Extra Credit: Algebra Coins

You can earn (or lose) Algebra Coins throughout the semester that you can use for extra credit in a variety of ways at the end of the semester. Instructions for redeeming the Algebra Coins will be provided toward the end of the semester and extra credit will be applied at the end of the semester. Coins can only be earned or redeemed in integer values.

#### Ways to Earn/Lose Algebra Coins

|   |                        |
|---|------------------------|
| 1. Attending a Breakout Session during lab                | 2 coins per session    |
| 2. Earning 100% on a Readiness Work Assignment            | 2 coins per assignment |
| 3. Correctly answering lecture quiz questions (Max 3/day) | 1 coin per question    |
| 4. Earning > 30 hours in the lab (Max 30 extra hours)     | 1 coin per hour        |
| 5. Earning $\geq 70\%$ on any unit exam                   | 15 coins per exam      |
| 6. Earning $\geq 60\%$ but < 70% on any unit exam         | 10 coins per exam      |
| 7. Earning $\geq 85\%$ Homework average                   | 25 coins               |
| 8. Earning $\geq 90\%$ on a Challenge Question Assignment | 5 coins per assignment |
| 9. Early Submission of Signature Write-Up Final Draft     | 10 coins               |
| 10. Scoring < 60% on any unit exam                        | -5 coins per exam      |

#### Ways to Redeem Algebra Coins – Extra Credit Options

|  |                   |
|--|-------------------|
| 1. Replace Final Exam by the average of the 3 unit exams (if higher) | 75 coins          |
| 2. Retake ONE exam 1, 2, or 3  | 25 coins          |
| 3. Bonus points on any readiness/unit exam (max 5 points per exam)   | 3 coins per point |
| 4. Replace required hours in the lab                                 | 5 coins per hour  |
| 5. Replace lecture attendance  | 15 coins per day  |
| 6. Replace a Homework grade with 100% (max 5 assignments)            | 3 coins           |
| 7. Replace a Quiz grade with 100% (max 2 quizzes)                    | 10 coins          |

\* NOTE: See the Course Schedule in Blackboard for the deadline to earn Algebra Coins. Redemption of coins cannot result in earning additional coins.

### Challenge Question Assignments

This course contains various related concept assignments, each containing an advanced, short answer, and multi-part question. These assignments will address the learning objectives and outcomes listed in the course objective section of your syllabus. Completion of the assignments is optional, but will earn Algebra Coins.

### Lecture Quizzes

Algebra Coins may be earned by correctly answering lecture quizzes given during lecture meetings. Lecture quizzes will be based on topics over which students are expected to prepare beforehand and on topics addressed in class. Students will answer lecture quizzes via web-enabled device or on rare occasions the 3"x5" index cards. **You must be present for the entire lecture to be eligible for that day's lecture quiz Algebra Coins.**



## Makeup Policy

In addition to the policy that NO late homework or quizzes will be accepted (see Homework and Quizzes), **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 exam date because of an approved conflict, please fill out the Alternate Exam Date Request Form which can be found in Blackboard. You must either submit the forms 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 exam date will be at the sole discretion of the instructor and/or course coordinator.

## Strategies and Lab Rules

The primary methods for course content delivery will be lecture and lab work.

- You should bring the workbook with you to class and lab. You will be guided through the notes and course material will be explained.
- The first 20 minutes of lab time will be dedicated to class instructional time and concept activities. The remaining hour will consist of Break-out sessions, group work, and individual instructional time. Break-out sessions during lab time will address Readiness Topics as well as critical course material. A schedule for the Break-out sessions with topics will be provided.
- Additional content material, videos, and notes can be found in the unit tabs within Blackboard and within the multimedia/eBook tab. The course is separated into 5 total units of material which will correspond to the readiness, unit, and final exams. Within each unit there are blocks with specific details and assignment requirements. Preparation and all graded assignments will take place within class and Blackboard.
- Lab participation is required and you are only allowed to work on MATH 1302 material while in the lab. Any violation of this rule will result in a student being asked to leave the lab and an absence will be recorded for that day. The lab time will give you an opportunity to obtain one on one tutoring and guidance for your homework and quizzes.
- Mobile phones and laptops are not allowed in the lab. Students must work on the designated computers within the Math Computer Lab.
- Students may continue to work through their homework and quiz assignments outside of the lab time since Blackboard is accessible from any source with an internet connection. Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.
- Students must login and have their MyMav ID upon entering and exiting the lab.
- No food or drinks are allowed in the lab.

## 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

- Face to Face Tutoring through the UTA Math Learning Resource Center. Free daily tutoring is offered in the Math Computer Lab – Pickard Hall (PKH) room 308 <http://www.uta.edu/math/LRC/> and the Math Clinic – Pickard Hall (PKH) room 325 <http://www.uta.edu/math/clinic/>
- IDEAS Center offers on-campus and online tutoring for transfer students, veterans, sophomores, and students re-entering school after a break <http://www.uta.edu/ideas/>
- University Tutoring Service <http://www.uta.edu/universitycollege/current/academic-support/learning-center/tutoring/index.php> Ransom Hall Suite 205.
- Maverick Resource Hotline (817-272-6107).  
<https://www.uta.edu/universitycollege/resources/resource-hotline.php>
- Counseling and Psychological Services (CAPS) <https://www.uta.edu/caps/>
- Additional Online Course Help: <https://www.khanacademy.org/>

## Course Objectives

### Course Catalog Description

This course is designed as preparation for higher level mathematics courses. Topics include the study of linear, quadratic, polynomial, rational, radical, absolute value, logarithmic, and exponential functions, relations and inequalities; graphs, basic characteristics, and operations on functions; real and complex zeros of functions; graphing techniques; systems of equations and matrices. The use of mathematical software and calculators is required.

### Prerequisite Learning Objectives and Outcomes

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

- R1.0 Students will be able to perform operations and factor expressions with exponents, fractions, and radicals.
- R2.0 Students will be able to solve algebraic equations and inequalities including linear, quadratic, rational, radical, and absolute value.

### Prerequisite Course Competencies

R1.0 To demonstrate competency in numerical operations, a student should be able to:

- R1.1 Simplify real numbers using the order of operations.
- R1.2 Evaluate exponential expressions.
- R1.3 Factor and perform operations with polynomials.
- R1.4 Simplify rational expressions and complex fractions.
- R1.5 Use radical and rational exponent notation.
- R1.6 Perform operations on expressions with radicals.

R2.0 To demonstrate competency in various equations, a student should be able to:

- R2.1 Solve linear equations and inequalities.
- R2.2 Solve rational equations.
- R2.3 Solve equations involving radicals.
- R2.4 Solve absolute value equations and inequalities.
- R2.5 Solve quadratic equations and inequalities for real and complex solutions using factoring, square root property, completing the square, the quadratic formula, and substitution.
- R2.6 Use the discriminant to describe solutions to quadratic equations.
- R2.7 Solve applied problems involving linear, rational, radical, absolute value, and quadratic equations.

## Learning Objectives and Outcomes

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

- 1.0 Students will be able to interpret graphs using the rectangular coordinate system, identifying characteristics such as slope and connecting graphs to their equations.
- 2.0 Students will be able to use functions both in a procedural and a conceptual manner. They will be able to represent functions graphically, numerically, algebraically, and/or verbally.
- 3.0 Students will be able to evaluate, graph, solve equations, and determine characteristics related to polynomial and rational functions.
- 4.0 Students will be able to evaluate, graph, solve equations, and determine characteristics related to logarithmic and exponential functions.
- 5.0 Students will be able to solve systems of equations and inequalities, interpreting the meaning of the solution(s) and demonstrating graphical solution techniques when appropriate. They will also be able to perform matrix operations, including multiplication, and find matrix inverses and determinants.

## Course Competencies

- 1.0 To demonstrate competency in the rectangular coordinate system, a student should be able to:
  - 1.1 Define the parts of the rectangular coordinate system.
  - 1.2 Graph lines using points, intercepts, and slope.
  - 1.3 Find the slope of a line and interpret slope as an average rate of change.
  - 1.4 Use slope to determine parallel and perpendicular lines.
  - 1.5 Write the equation of a line given points, slope, or intercepts.
- 2.0 To demonstrate competency in basic relations, functions, and operations, a student should be able to:
  - 2.1 Define and identify relations and functions.
  - 2.2 Determine the domain and range of relations and functions.
  - 2.3 Evaluate functions using function notation.
  - 2.4 Determine the intervals for which a function is increasing, decreasing, or constant.
  - 2.5 Determine the intervals for which a function is continuous.
  - 2.6 Use functions to model data.
  - 2.7 Identify characteristics and evaluate piecewise-defined functions.
  - 2.8 Identify characteristics, evaluate, and graph various functions using translations.
  - 2.9 Determine whether a function is even or odd.
  - 2.10 Find the sum, difference, product, and quotient of functions.
  - 2.11 Determine the difference quotient.
  - 2.12 Find the composition of functions and determine the effect on domain.
- 3.0 To demonstrate competency in polynomial and rational functions, a student should be able to:
  - 3.1 Determine domain and range.
  - 3.2 Identify increasing, decreasing, and constant functions.
  - 3.3 Graph quadratic functions.
  - 3.4 Find and use the vertex of a quadratic function in an application.
  - 3.5 Use long division and synthetic division algorithms for polynomials.
  - 3.6 Determine zeros and factors of functions using a variety of algebraic techniques.
  - 3.7 Determine the value of a polynomial function using the remainder theorem.
  - 3.8 Create a polynomial function given zeros of the function.
  - 3.9 Sketch the graph of a polynomial function.
  - 3.10 Use the intermediate value theorem for polynomial functions.
  - 3.11 Determine the asymptotes of a rational function.
  - 3.12 Sketch the graph of a rational function.
- 4.0 To demonstrate competency in exponential and logarithmic functions, a student should be able to:
  - 4.1 Identify characteristics and determine the inverse of a function.
  - 4.2 Evaluate exponential and logarithmic functions.
  - 4.3 Expand and condense expressions using logarithmic properties.

- 4.4 Relate logarithmic and exponential functions.
  - 4.5 Determine the graphs of logarithmic and exponential functions.
  - 4.6 Solve exponential and logarithmic equations.
  - 4.7 Solve problems consisting of exponential and logarithmic applications.
- 5.0 To demonstrate competency in systems of equations and matrices, a student should be able to:
- 5.1 Solve linear systems of equations using algebraic techniques.
  - 5.2 Solve systems of equations using Cramer's Rule and determinants.
  - 5.3 Determine the solution of a system of inequalities.
  - 5.4 Relate solving equations and inequalities to linear programming applications.
  - 5.5 Solve application problems using systems of equations.
  - 5.6 Apply properties of matrices and perform basic operations.

## Course Policies

### Drop Policy

If you withdraw from the course for any reason, you must follow University procedures. It is your responsibility to execute these procedures correctly and within the deadlines. **Instructors are unable to drop students**, but we strongly recommend that visit with your instructor before you decide to drop the course. 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>).

### Disabilities Accommodations

UT 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)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. 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 disability. Students are responsible for providing the instructor with official notification in the form of a **letter certified** by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting: **The Office for Students with Disabilities, (OSD)** [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability).

## Counseling and Psychological Services (CAPS)

CAPS ([www.uta.edu/caps/](http://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.

## Grade Grievances

Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog. For undergraduate courses including this one, see <http://catalog.uta.edu/academicregulations/grades/#undergraduatetext>.

## 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](http://uta.edu/eos).*

## Title IX

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](http://www.uta.edu/titleIX) or contact Ms. Michelle Willbanks, Title IX Coordinator at (817) 272-4585 or [titleix@uta.edu](mailto:titleix@uta.edu).*

## Academic 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. This course includes a zero tolerance policy for academic dishonesty and students 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 in their courses by 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. Additional information is available at <https://www.uta.edu/conduct/>.

**Students found guilty of cheating may receive a grade of "F" for the course.**

*"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)*

Faculty are encouraged to discuss plagiarism and share the following library tutorials

<http://libguides.uta.edu/copyright/plagiarism> and <http://library.uta.edu/plagiarism/>

## 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](mailto:resources@uta.edu), or view the information at <http://www.uta.edu/universitycollege/resources/index.php>.

University Tutorial & Supplemental Instruction (Ransom Hall 205): UTSI offers a variety of academic support services for undergraduate students, including: 60 minute one-on-one tutoring sessions, Start Strong Freshman tutoring program, and Supplemental Instruction. Office hours are Monday-Friday 8:00am-5:00pm. For more information visit [www.uta.edu/utsi](http://www.uta.edu/utsi) or call 817-272-2617.

The Library's 2nd floor Academic Plaza offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library's hours of operation. <http://library.uta.edu/academic-plaza>.

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](mailto:IDEAS@uta.edu) or call (817) 272-6593.

The English Writing Center (411LIBR): The Writing Center offers FREE tutoring in 15-, 30-, 45-, and 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Register and make appointments online at <https://uta.mywconline.com>. Classroom visits, workshops, and specialized services for graduate students and faculty are also available. Please see [www.uta.edu/owl](http://www.uta.edu/owl) for detailed information on all our programs and services.

## 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>.

## 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

For semester-long courses, 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 and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. If we experience an emergency event that requires us to vacate the Math Computer Lab in PKH 308, proceed to one of the three corners of the PKH building and use the stairwell. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

## Emergency Phone Numbers

In case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911. We further recommend that you enter the UTA Police Department’s emergency phone number into your own mobile phone. For non-emergencies, contact the UTA PD at 817-272-3381.

## Student Intellectual Property Rights Statement

A student shall retain all rights to work created as part of instruction or using university technology resources.