

Mathematics 1090-001

Spring 2018

Instructor:	Ryleigh Moore
Class Time and Place:	8:35-9:25 a.m. Mondays, Wednesdays, and Fridays Room AEB 350
Office Hours:	TBA
Office Location:	LCB Loft (4 th Floor)
E-mail address:	RMoore@math.utah.edu
Class Web Page:	Canvas
Text:	<i>Business Algebra</i> , 2nd edition, MacArthur, published by Kendall Hunt, ISBN 9781465240989
Course Information:	Math1090, College Algebra for Business and Social Sciences is a 3-credit semester course.
Prerequisite:	At least a C grade in Math1010 (Intermediate Algebra) OR Math1050 (College Algebra) OR in Math1080 (Precalculus) OR an Accuplacer score of 60 on the College Level Math (CLM) test OR at least an ACT Math score of 23 OR at least SAT Math score of 540.
Course Description:	Functions and graphs, polynomial and rational functions, matrices, Gaussian elimination, exponential and logarithmic functions, growth, periodic and continuously compounded interest, arithmetic and geometric sequences, annuities and loans.
Teaching Philosophy:	<p>I firmly believe that mistakes are an important part of the learning process. Math is a difficult subject. Please don't be afraid of making a mistake!</p> <p>“I've missed more than 9,000 shots in my career. I've lost almost 300 games. Twenty six times I've been trusted to take the game winning shot and missed. I've failed over and over and over again in my life. And that is why I succeed.” ~Michael Jordan</p>
Expected Learning Outcomes:	<p>Upon successful completion of this course, a student should be able to:</p> <ol style="list-style-type: none">1. Graph and analyze quadratic, exponential and logarithmic functions; solve quadratic, exponential and logarithmic equations.2. Understand what a mathematical function is and know how to use linear, quadratic, logarithmic and exponential functions to model real

world examples.

2. Know how to solve a system of linear or quadratic equations that arise in business applications.
3. Find solutions to linear programming problems, to maximize a function over a geometric region.
4. Perform simple matrix algebra computations.
5. Use matrices to solve systems of linear equations.
6. Understand what an inverse function is and be able to find the inverse function, when it exists.
7. Distinguish between simple and compound interest situations.
8. Calculate future and present value of annuities, and know when to use which formula for the life application.
9. Compute an amortization schedule and loan payments, such as automobile or mortgage payments.

Tutoring Lab:

T. Benny Rushing Mathematics Student Center (adjacent to JWB and LCB), Room 155. Hours: Mon - Thurs 8 am - 8 pm & Fri 8 am - 6 pm (closed Saturdays, Sundays and holidays). They are also offering group tutoring sessions. If you're interested, inquire at the Tutoring Lab. <http://www.math.utah.edu/ugrad/tutoring.html>

Private Tutoring:

University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB233.

Computer Lab:

Also in the T. Benny Rushing Mathematics Student Center, Room 155C. Mon - Thurs 8 am - 8 pm & Fri 8 am - 6 pm
Link to computer lab is <http://www.math.utah.edu/ugrad/lab.html>

Grading:

The grades will be calculated as follows:

Homework	10%
Quizzes	10%
Midterm	20%
Midterm	20%
Midterm	10%
Final Exam	30%

(Note: There will be 3 midterms. Your lowest midterm score will count for 10% of your grade and your top two midterm scores will each count for 20% of your final grade.)

Homework:

Homework will be due on Webassign (online) Mondays of each week at 11pm. No late homework will be accepted. **The lowest 8 homework scores will be dropped (out of approximately 30-32 assignments).** Each section of hw in Webassign will be considered an assignment. **It is EXTREMELY important that you only access Webassign via the link on canvas.** You can purchase Webassign/textbook access on the Kendall Hunt website. If you decide to drop the class, full refunds are given from

Kendall Hunt until Jan. 22nd.

- Weekly Quizzes:** There will be near-weekly in-class quizzes on Wednesdays when there is not an exam. The weekly quiz will cover the material presented on the homework that was due the Monday of that week. Quizzes will be team based. Groups will be determined randomly and will change each week. **Your lowest three quiz scores will be dropped.**
- Midterms:** There will be three one-hour midterm exams throughout the semester on **Wednesdays**, and the dates will be **(week 4) 1/31, (week 8) 2/28, and (week 12) 4/4. Please make sure you are in class for the exam days.**
- Missing Class:** If you are going to miss any quizzes or exams due to the Business Scholars program, university sports events, military duties, or other university sanctioned events you must let me know **at least one week in advanced to make-up missed quizzes or exams.** Any emergencies will be addressed on an individual basis. Make-ups will not be given out easily, please be in class if at all possible for exam and quiz days.
- Final Exam:** **The final exam for this class is comprehensive and will occur Monday, April 30th at 3:30-5:30.** The location is TBA. This is a departmental final which means there is a small chance that you will have a final from another class scheduled at the same time by the university. **You have until April 15th to inform me of a conflict with another final. No exceptions made for any other conflicts.**
- Online Grades:** I will put your grades online on Canvas. You can get there easily from the main University of Utah website www.utah.edu. To log in, you use the same student id and password that you use for Campus Information System. I do my best to update the grades on a regular basis and keep everything accurate. However, I would advise you to check your grades often to make sure there were no data entry mistakes. I'm always happy to correct any mistakes I've made. You just need to let me know about them.
Please keep quizzes and tests until the end of the semester in case a mistake is made.
- Calculators:** You may find it helpful to have a graphing calculator for your own personal use. However, if I allow calculators on exams or quizzes, I will only allow scientific calculators (no graphing or programmable calculators will be allowed ever). Most of the time, you will not have use of a calculator on exams and quizzes. This will be discussed more in class with each quiz and test.
Calculators that are allowed: TI-30Xa Scientific Calculator, TI-30XS MultiView Scientific Calculator, TI-34 Multiview Scientific Calculator, TI-30X IIS Scientific Calculator, Casio fx-300ES Scientific Calculator, Casio fx 300 ES PLUS, Casio fx-300MS Scientific Calculator, Casio fx-260 SOLAR Scientific Calculator. **See the Approved Calculators document on canvas for pictures of each type.**

Grading Scale: Although I'm not philosophically opposed to curving grades, I find it's rarely necessary. The grade scale will be the usual: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), E (0-59).
If I do need to curve the grades, I will simply shift everything down by a few points (whatever is necessary).

ADA Statement: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability & Access (CDA), 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDA.

Student Responsibilities: All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee.
<http://regulations.utah.edu/academics/6-400.php>

Classroom Social Equity: I strive to be ethical, kind, fair, inclusive and respectful in my classroom and expect students to behave likewise. In this regard, I have these requests of you, my student:

1. Please inform me of whichever pronouns you prefer me to use for you. I will put great effort into honoring your request and ask that you correct me if I do happen to make a mistake.
2. Please do tell me, discreetly, if you have any sort of anxiety disorder, TBI, PTSD, C-PTSD, or any other challenge that would cause psychological harm to you by me calling on you in class. I want students to feel a little uncomfortable and stretched during class, while working on problems as a large group, but I definitely don't want to cause any human being harm. So, please just tell me if that is the case for you and I will confidentially accommodate your request.
3. If your preferred name is different than your legal first name (*the preferred name you chose does indeed show up in CIS on my roll sheet, but not yet in Canvas*), please log into Canvas and go to Account (on far left)-->Settings and change your Display Name to be the name you prefer to be addressed by. This will help me greatly to know students' names, and to address you correctly when responding to Canvas quiz comments.

Additional Policies:

I reserve the right to change my policies stated in this syllabus at any point in the semester. If I do make a change to a policy, I will announce it in class and send the change in email.