

# Syllabus: Math 1090-005

Fall 2021

Revised 21 August

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## COURSE DESCRIPTION, INSTRUCTOR INFORMATION

### Course Description:

- **Course Number and Title:** Math 1090-005, Business Algebra
- **Semester and Year:** Fall 2021
- **Course Overview:** In Math 1090, College Algebra for Business and Social Sciences, students will gain a background of algebra topics that will be important in future business classes. Topics include 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. Math1090 is a 3-credit semester course and satisfies the University's QA requirement.
- **Course Type:** In-person
- **Location:** SFEBB 110 (in basement)
- **Meeting Days and Times:** Monday, Wednesday 9:10-10:30am

### Instructor Information:

- **Instructor:** Eric Brown
- **Email:** [ebrown@math.utah.edu](mailto:ebrown@math.utah.edu)
- **Accessibility & Support:** Your success in this course is my goal; to this end, I try to be as flexible as I can within reason. I take time to go over homework questions at the beginning of each lecture and will try to stay after class for a few minutes every day. Outside of class, you may contact me about individual matters by Canvas message (preferred) or email; I will do my best to get back to you within 24 hours. For homework questions specifically, I ask that you post about them in a Canvas discussion so that all may benefit. I will provide extra credit to students who reply to these discussion posts. I will also post a list of helpful resources on Canvas.
- **Office Hours:** Immediately after lecture on Mondays in the lobby outside the classroom. In consideration of COVID-19 and to be more flexible to your schedule, I will also be available to meet with by appointment (more details on Canvas). Appointments must be scheduled at least one day in advance.

## COURSE DETAILS

- **Prerequisites:** Starting in Summer 2021, the Math Department will not be using prerequisites to place students in math classes. Students are responsible for determining whether they are ready for the course they select. The former prerequisites for Math 1090 are listed below. These are still recommended as guidelines to determine if you have the background to be successful in this course (without a lot of additional work on your part):
  - C or better in Math980 (Beginning Algebra), Math1010(Intermediate Algebra) OR Math1030 (Quantitative Reasoning)
  - 240+ in Accuplacer AAF (The UofU provides one free Accuplacer exam to all students. <https://testingcenter.utah.edu/students/placement-tests/math-placement.php>)
  - 23+ in ACT Math
  - 570+ in SAT Math
  - Qualifying GPA 3.35
- **Course Materials:**
  - **Textbook:** Business Algebra, 3rd edition, published by Kendall Hunt, (ISBN: 9781524993405)  
Book Purchasing Instructions:  
<http://www.math.utah.edu/schedule/bookInfo/Math1090BookInfo.pdf>
  - **Additional course materials:**
    - The course website is in Canvas.
    - The university has recorded lectures for MATH 1090, available at <http://www.math.utah.edu/lectures/math1090.php>. These lecture videos can always be used as an additional resource in learning the course material, and may occasionally be used as part of class assignments. They will also be posted in Canvas.
    - We will use the online site, Gradescope, for grading and giving feedback on exams. There is a link in Canvas to Gradescope. You may be asked to submit some assignments directly to Gradescope.

- **Technical requirements:**
  - A scientific calculator is needed for some homework and exams. On exams, you are allowed to use a basic scientific calculator, so long as it does not have graphing or scientific formula functionality. You are not allowed to use a phone or computer calculator app. If you are uncertain whether your calculator meets requirements, ask me.
  - Access to the Internet – to access course materials
  - A scanning device – to turn in some assignments. A smartphone is fine; there are also scanners available in the Marriott Library.
  
- **Attendance & Punctuality:** Students are expected to attend lectures and, if class is missed, to go through the material covered in class by watching videos, reading the textbook, and thinking about course ideas. Attendance may be taken occasionally for extra credit purposes. If you miss a quiz or other in-class assignment, instead of having make-ups, a certain number of assignments will be dropped at the end of the semester. For exams, exceptions are made if there are extenuating circumstances, but you must contact me in writing at least one week in advance to arrange accommodations. There is also the option to retake one exam at the end of the semester. (See Grading policies later in the syllabus for more details.)
  
- **UofU Learning Support:**
  - Math Center Tutoring, (Paid for by Your Student Fees)  
<http://www.math.utah.edu/undergraduate/mathcenter.php>
  - The Learning Center, 3 free tutoring sessions, \$5 after that, learning consultations  
<https://learningcenter.utah.edu/>
  - Student Success Advocates <https://ssa.utah.edu/events.php>
  
- **General Help:**
  - Here is information from the University about logistics in light of COVID-19. There is also information about financial assistance, counseling, the food pantry, and much more.  
<https://coronavirus.utah.edu/#students>
  
- **Equipment Help**
  - The UofU has a laptop and mobile hotspot loan program – laptops, mobile hotspots mailed to current U students on a first-come, first-served basis. You can find out more information about this through this link: <https://lib.utah.edu/coronavirus/checkout-equipment.php>
  - For technical assistance, review the [Canvas Getting Started Guide for Students](https://community.canvaslms.com/docs/DOC-10701) <https://community.canvaslms.com/docs/DOC-10701> and/or contact TLT, Knowledge Commons, etc.

## **COURSE EXPECTED LEARNING OUTCOMES (ELOs)**

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

## COURSE DESIGN

- **Lectures:** Classes will combine lecture with time to discuss and practice material. Active Participation is encouraged.
- **Homework Assignments:** Homework will be assigned from the textbook and submitted in Canvas. There will be a few non-textbook assignments as well. Each assignment should be a single pdf file. Assignments will usually be due on Mondays and Wednesdays. The four lowest assignments scores will be dropped at the end of the semester. Assignments will be graded for correctness, neatness and work shown (no work = no points)
- **Quizzes:** There will be quizzes on Mondays most weeks at the end of class. They will be given in class and a set amount of time, generally 30 minutes, will be given. You are required to write your quizzes on a provided template. You will be allowed to use your notes, previous homework assignments, textbook, and a calculator to complete them. You may not use the Internet. The lowest 3 quiz grades will be dropped.
- **Two midterm exams.** Review Material will be provided in class. You may/should prepare 1 sheet of notes (front and back) to use during the exam. You should also have a scientific calculator. No other materials are allowed during the exam.
- **Final Exam:** Math 1090 students take a final exam at a date and time set by the University (see information below). There is a final at the end of the course. It covers material not on previous exams and selected topics from earlier in the course. The procedures will be similar to the midterm exams.

## CLASS SCHEDULE & IMPORTANT DATES

### Weekly Deadlines:

- Homework – due Mondays and Wednesdays at 11:59 pm (grace period through 5 am the next day)
- Quizzes – given in class, usually on Mondays. Occasionally will be take-home.

### Tentative Schedule of Topics – to be adjusted as necessary

Week/Date	Material Covered	Exams, Quizzes
1 (8/23 – 8/27)	1.1-1.3	
2 (8/30 – 9/3)	1.4-1.6	Quiz 1
3 (9/6 – 9/10) Labor Day	1.7-1.8	Quiz 2
4 (9/13 – 9/19)	2.1-2.3	Quiz 3
5 (9/20 – 9/26)	2.4-2.5	Quiz 4
6 (9/27 – 10/3)	Review	Quiz 5
7 (10/4 – 10/8)	Exam, 3.1-3.2	Exam 1 (ch 1-2)
BREAK		
8 (10/18 – 10/24)	3.3-3.5	Quiz 6
9 (10/25 – 10/31)	3.6-3.7, 4.1	Quiz 7
10 (11/1 – 11/7)	4.2-4.4	Quiz 8
11 (11/8 – 11/14)	4.5-4.6, Review	Quiz 9
12 (11/15 – 11/21)	Exam, 5.1	Exam 2 (ch 3-4)
13 (11/22 – 11/28) Thanksgiving Break	5.2-5.3	
14 (11/29 – 12/5)	5.4-5.5	Quiz 10
15 (12/6 – 12/9)	Review	
Final 12/16		Final exam (ch 1-5)

### Important Dates:

Classes begin: Monday, August 23

Last day to add without a permission code/wait list: Friday, August 27

Last day to add or drop classes: Friday, September 3

Labor Day (no class): Monday, September 6

#### Exam 1: Monday, October 4

Fall Break: Monday Oct 11 – Friday Oct 15

Last Day to Withdraw from Classes: Friday, October 22

#### Exam 2: Monday, November 15

Thanksgiving Break: Thursday-Friday November 25, 26

Last Day of Class: Wednesday, December 8

**Final Exam: Thursday, Dec 16, 3:30-5:30pm**

## ASSIGNMENTS, ASSESSMENT, GRADING, & LATE POLICY

Assignment Category	Contribution to Grade	Adjustments (dropped at the end of the semester)
Homework	25%	Lowest 4
Quizzes	15%	Lowest 3
Exam 1	20%	
Exam 2	20%	
Final Exam	20%	

Extra credit, worth around 3% of the grade can be earned by helping spot errors in the course and via other opportunities announced in class.

### Grading Scale:

A [93-100),  
A- [90-93),  
B+ [87-90),  
B [83-87),

B- [80-83),  
C+ [77-80),  
C [73-77),  
C- [70-73),

D+ [67-70),  
D [60-67),  
D- [50-60),  
E [0-50).

**Regrading Policy:** If a grade is recorded incorrectly, it is the student's responsibility to let the instructor know in a timely manner (at the latest within 2 weeks of when the grade was recorded.)

**Late/Makeup Work:** The course is designed to provide flexibility if you occasionally cannot turn work in on time by dropping a certain number of scores at the end of the semester. But in general, you are expected to turn in HW and quizzes on the due dates. **It is your responsibility to start HW assignments early** enough, so that even if you are in traffic, your flight gets delayed, you are called into work, you run out of ink, you do work for another class, have equipment failure, etc., you still have time to deal with the situation and then finish the assignment/homework.

**Make-up Policy for Exams:** If you are not able to attend an exam, you can take an in-person make-up exam at a University of Utah Exam Services at the Marriot Library. This center is typically open from 9am-5pm Monday-Friday, and have some hours on Saturday, but the hours will vary week to week. It is students' responsibility to check the center's hours. Students must register for a time-slot to take their quiz or exam.

Location: Marriott Library, Room 1704

Phone: 801-581-6112 (option 3)

Website: <https://testingcenter.utah.edu/>

For planned absences (including University excused absences (band, debate, student government, intercollegiate athletics, etc.), military duty or religious obligations) please inform me 2-weeks ahead of the actual exam date, so that I have time to arrange the make-up and you have time to study for your exam. You will be asked to take the exam prior to the regular in-class exam. If you miss your exam because of illness or an extreme situation which arises suddenly, talk to me as soon as you are aware of your situation to plan for a make-up. If you miss an exam, but it is not due to an extreme situation, also contact me. We will discuss make-up options, but there will be a penalty for taking the exam late.

### Credit/No Credit Option:

- If you are taking Math 1090 to meet a major or minor requirement, then you should opt for a letter grade, rather than credit/no credit (CR/NC).
- This is the official University description of the credit/no credit option: "The credit/no credit (CR/NC) option allows a student to enroll in selected courses outside of his/her academic plan, without the pressure of competing for a letter grade. By electing CR/NC, students are expected to complete the same work as students enrolled for letter grades." If you are interested in credit/no credit, consult the following:
  - o University guidelines: <https://catalog.utah.edu/#!/policy/B12v3LX0G?bc=true&bcCurrent=Grading%20Poli>
  - o Dates for Choosing CR/NC <https://registrar.utah.edu/academic-calendars/spring2021.php>
  - o Consider speaking with an academic advisor to determine whether this is a good option.

**Incompletes:**

According to university policy, to be considered for an incomplete, a student must have 20% or less of the course work remaining and be passing the course with a C or better. You must request an incomplete grade and I will consider giving that grade only under exceptional circumstances.

**COMMUNICATION**

- All course materials, such as lecture slides, assignments, solutions, grades, etc. will be posted on the Course Canvas site.
- Class announcements will be done via email through the Canvas server and in the Canvas announcements page. You will be responsible for any information contained in them as well as the information announced in class. Students are also strongly advised to set up notifications for canvas so they do not miss any important notifications.
- It is your responsibility to also regularly check your Umail (make sure you set up forwarding if you do not check it regularly). Your Umail is the only way for me to communicate privately with you, there will be occasions during the semester that we may need to reach out to you individually (e.g. regarding a grade or assignment) and it is in your best interest to respond promptly.
- Feel free to contact me by Canvas message (preferred) or email for questions, I will do my best to answer within 24 hours. I would like to encourage you to reach out to me directly only if it is something personal that requires individual attention. If instead you have questions about the logistics of the class, course material and assignments, or anything else your classmates might wonder as well, please post a question on the Canvas Discussions Board. This way the information is shared quickly to the entire class, and everyone benefits from seeing other classmates' questions and the responses.

**NETIQUETTE - EXPECTATIONS FOR ONLINE LEARNING ENVIRONMENT**

- Respectful participation in all aspects of the course will make our time together productive and engaging. Zoom lectures, discussion threads, emails and canvas are all considered equivalent to classrooms and student behavior within those environments shall conform to the student code. Specifically:
  - Posting photos or comments that would be off-topic in a classroom are still off-topic in an online posting.
  - Disrespectful language and photos are never appropriate.
  - Using angry or abusive language is not acceptable, and will be dealt with according to the Student Code. The instructor may remove online postings that are inappropriate.
  - Do not use ALL CAPS, except for titles, or overuse certain punctuation marks such as exclamation points and question marks.
  - Course e-mails, e-journals, and other online course communications are part of the classroom and as such, are University property and subject to the Student Code. Privacy regarding these communications between correspondents must not be assumed and should be mutually agreed upon in advance, in writing.
- Here are additional expectations for online communication (on Discussion Board, Emails, Zoom chat etc):
  - Emails: When emailing your Instructor and Teaching Team keep a professional tone (e.g. Use a descriptive subject line, avoid "Hey" and begin the e-mail with an appropriate form of address. Sign your message with your name and return e-mail address. Please consult this page for tips on how to write appropriate professional emails: <https://academicpositions.com/career-advice/how-to-email-a-professor>
  - Treat your instructor, teaching team and classmates with respect in email or any other communication.
  - Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you."
  - Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and your message might be taken seriously or be offensive to others.
  - Be careful with personal information (both yours and others).
- Electronic or equipment failure: It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment failures will not be an acceptable excuse for late or absent assignments.
- Online submissions: You are responsible for submitting the assignment with the required naming convention, correct file extension, and using the software type and version required for the assignment.
- Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name.

## ACADEMIC CODE OF CONDUCT

Students are encouraged to review the Student Code for the University of Utah: <https://regulations.utah.edu/academics/6-400.php>. In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating. A student who engages in academic misconduct as defined in Part I.B. may be subject to academic sanctions including but not limited to a grade reduction, failing grade, probation, suspension or dismissal from the program or the University, or revocation of the student's degree or certificate. Sanctions may also include community service, a written reprimand, and/or a written statement of misconduct that can be put into an appropriate record maintained for purposes of the profession or discipline for which the student is preparing.

## ADDITIONAL POLICIES AND RESOURCES

**COVID-19:** Students are required to self-report if they test positive for COVID-19. To report, please contact: COVID-19 Central @ The U, 801-213-2874 [coronavirus.utah.edu](mailto:coronavirus.utah.edu). Masks and face coverings will no longer be required at University of Utah facilities beginning Monday, May 24 2021. While masks are no longer required, masks are welcome to be worn in classroom spaces and on campus for those that choose to wear them.

University leadership urges all faculty, students, and staff to model the vaccination, testing, and masking behaviors we want to see in our campus community. These include:

- **Vaccination:** Get a COVID-19 vaccination if you have not already done so. Vaccination is proving highly effective in preventing severe COVID-19 symptoms, hospitalization and death from coronavirus. Vaccination is the single best way to stop this COVID resurgence in its tracks. Visit <http://mychart.med.utah.edu/>, <http://alert.utah.edu/covid/vaccine>, or <http://vaccines.gov/> to schedule your vaccination.
- **Masking:** While masks are no longer required outside of Health Sciences facilities, UTA buses and campus shuttles, CDC guidelines now call for everyone to wear face masks indoors.
- **Testing:** If you are not yet vaccinated, get weekly asymptomatic coronavirus tests. This is a helpful way to protect yourself and those around you because asymptomatic individuals can unknowingly spread the coronavirus to others. Saliva based testing is available at [alert.utah.edu/covid/testing](http://alert.utah.edu/covid/testing)
- **Self-Reporting:** All of us, including faculty, students, and staff, must self-report if we test positive for COVID-19 via this website: <https://coronavirus.utah.edu/>.

**Plagiarism and Academic Integrity:** Academic integrity means that scholars, including students, conduct their work ethically. This includes taking credit only for work they themselves perform. Violations of academic integrity undermine the principle of fairness, devalue your degree, and leave you underprepared for applying what you have been taught. In this way, it defrauds you, your classmates, the university, and the people you will serve with your education after graduation. It includes cheating on tests and other assessments, collaborating on projects when not permitted to, presenting other people's work as yours (whether they agree to that), and more. Plagiarism is a serious offense against academic integrity that could result in failure for the test or paper, failure for the course, and expulsion from the university. Plagiarism usually involves passing off the work, words, or ideas of others as your own without giving proper credit.

**Privacy Policy:** FERPA, the federal law that guards student privacy, prohibits me from discussing your performance in this class with anyone except you without your permission, which must be on file with the university, not simply told to me. To ensure compliance with this law, send e-mail with a university e-mail address or via Canvas mail.

Out of respect for the privacy of your classmates, do not record or screenshot any part of this class for use outside of this class, even if you omit identifying information about the speaker or poster. You may not circulate or share images, clips, or other course materials with individuals who are not enrolled in this class. Doing so is a serious violation of our class ethical code and will result in a charge of academic misconduct.

**Discrimination and Harassment:** If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or Office of the Dean of Students, 270 Union Building, 801-581-7066. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS). Please see Student Bill of Rights, section E <http://regulations.utah.edu/academics/6-400.php> I will listen and believe you if someone is threatening you.

**Veterans Center.** If you are a student veteran, the U of Utah has a Veterans Support Center located in Room 161 in the Olpin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/> Please also let me know if you need any additional support in this class for any reason.

**The Americans with Disabilities Act:**

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, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability & Access.

**Addressing Sexual Misconduct:** Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted on the basis of your sex, including sexual orientation or gender identity/expression, you are encouraged to report it to the University's Title IX Coordinator; Director, Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or to the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to police, contact the Department of Public Safety, 801-585-2677(COPS), <https://police.utah.edu/>

**Campus Safety:** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit <https://safeu.utah.edu>

**University Counseling Center** The UCC staff is committed to supporting the mental health needs of our campus community. Their phone number is 801-581-6826. Their hours are Monday-Friday, 8:00am-5:00pm. For after-hours emergencies, contact the 24/7 Crisis Line: 801-587-3000. More information is at <https://counselingcenter.utah.edu/> .

**Office of the Dean of Students** The Office of the Dean of Students is dedicated to being a resource to students through support, advocacy, involvement, and accountability. It serves as a support for students facing challenges to their success as students, and assists with the interpretation of University policy and regulations. To contact the Office of the Dean of Students, please email [deanofstudents@utah.edu](mailto:deanofstudents@utah.edu) or call 801-581-7066. There is more information at <https://deanofstudents.utah.edu/>

**Syllabus subject to change:** This syllabus is meant to serve as an outline and guide for our course. Please note that I may modify it with reasonable notice to you. I may also modify the Course Schedule to accommodate the needs of our class. Any changes will be announced in class and posted on Canvas