

Syllabus: Math 1090-008

Fall 2024

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COURSE DESCRIPTION, INSTRUCTOR, AND GENERAL INFORMATION

Course Description:

- **Course Number and Title:** Math 1090-008
- **Semester and Year:** Fall 2024
- **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 classes, location: [M LI 1150](#)
- **Meeting Days and Times:** Tuesday and Thursday 6:00 PM to 7:30 PM

Instructor Information:

- **Instructor:** Carlos Ospina (He/Him) [link](#)
- **Email:** ospina@math.utah.edu (This is my preferred method for contacting me, allow me 24-36 hours to respond during the week, and a bit longer during the weekends and holidays).
- **Accessibility & Support:** I want to provide lots of opportunities for you to talk about math or talk with me. I try to come to class 5-10 minutes early, so there is time to ask about HW and past material. Some days I can stay after too. Please also ask questions in class. Outside of class, I encourage you to post questions, especially about HW, and responses in online Canvas Discussions. I look them over almost daily, but wait 24-36 hours after a post is made hours to respond to encourages all members of our class to participate. You are also welcome to e-mail me or contact me through Canvas mail. I try to respond to messages in the early morning, the morning after they come in.
- **Office Hours:** Tuesday and Thursday 3:00 PM to 4:00 PM [JWB 221](#) or by appointment (email me)

Learning Assistant (LA)

- **LAs:** We will have an LA this semester! They will be introduced in Canvas
- **What are LAs?** LAs are undergrad students who are here to support you as you take this course. LAs facilitate discussions in class and in HW workshops. You can talk with them about learning, study strategies, and life. Our LA(s) don't provide tutoring (though they will certainly contribute in discussions), but they can help you navigate all the resources at the University.
- **HW Workshops:** Your LA and other LAs will host HW workshops each week. A schedule will be posted on Canvas.

Course Coordinator: Rebecca Noonan Heale (Associate Professor, Lecturer)

Email: rebecca@math.utah.edu

What she does: the course coordinator supports all Math 1090 instructors. If you have concerns about your Math 1090 instructor or course, contact the course coordinator.

COURSE DETAILS

- **Prerequisites:** The Math Department does not use prerequisites to place students in Math 1090. Students are responsible for determining whether they are ready for the course. A student entering 1090 should have mastered the 980 material. You can see sample 980 problems and a sample final exam here: <https://www.math.utah.edu/undergraduate/placement.php>.
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 Math 980 (Beginning Algebra), Math 1010(Intermediate Algebra) OR Math 1030 (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). Cost: approximately \$62 for E-book (4-month access). Print version of the text available at the bookstore. The textbook is used to supplement classes and for review materials before the two exams and the final.

We are using the Inclusive Access Program to obtain the textbook. A link to the textbook will be made through Canvas. Students are automatically billed for the textbook this with their tuition. See email from the bookstore. Note: you need to access the materials in the textbook, but do not need to own the textbook. There are copies available for short term loan at the Marriott Library and at the Math Tutoring Center. If you plan to borrow the book or have access in a different way, then you can OPT OUT of buying the textbook, via the "Bookshelf" tab on Canvas. This must be done in the first two weeks of the semester.

Online HW: The course uses Online Homework through a system called IMathAs. This homework is free to students and can be accessed on Canvas.

Scientific Calculator: A scientific calculator is needed for many assignments, including quizzes and exams. Graphing, financial, and phone-based calculators are not allowed on exams. Here is a list of approved calculators: <https://www.math.utah.edu/resources/documents/textbooks/math1090approvedcalculators.pdf>. If you have a scientific calculator is not on the list, see your instructor about whether it can be approved.

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 use the online site, Gradescope, for grading and giving feedback no exams. There is a link in Canvas to Gradescope. You may be asked to submit some assignments directly to Gradescope.

▪ **Technical requirements:**

- Access to the Internet – to access HW and course materials
- A scanning device – to turn in some assignments

- **Attendance & Punctuality:** Students and expected to attend classes and, if classes are missed, to go through the material covered in class by watching videos, reading the textbook, and thinking about course ideas. 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. (See Grading policies later in the syllabus for more details.)

▪ **UofU Learning Support:**

- Math Center Online Tutoring, free drop-in in-person and online tutoring <https://www.math.utah.edu/undergraduate/mathcenter.php>
- UONLINE eTutoring, free drop-in online tutoring: <https://online.utah.edu/student-resources/etutoring/index.php>
- The Learning Center, scheduled 1-hour free tutoring sessions, <https://learningcenter.utah.edu>

- Student Success Advocates <https://ssa.utah.edu>
- **Equipment Help**
 - The UofU has a laptop and mobile hotspot loan program – laptops, mobile hotspots are available to current U students on a first-come, first-served basis. You can find out more information about this through this link: <https://www.lib.utah.edu/services/knowledge-commons/checkout-equipment.php>
 - For technical assistance, review the *Canvas Student Guide* found at <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, present and future value annuities, and loan situations; answer questions about these situations using formulas and additional reasoning.

COURSE DESIGN

- **Lectures:** Classes will combine lecture with time to discuss and practice material. Active Participation is encouraged.
- **Homework:** Homework is done online through Canvas. (We use the IMathAs platform.) There will be 2 to 3 HW assignments most weeks, or about 30 in total. HW is due Tuesday and Friday at 11:59 PM. Students are encouraged to start HW promptly, seek help when stuck, and work together when doing homework (in such a way that all are learning the mathematics.) Students may submit HW late for 80% credit.
Occasionally, students find errors in HW problems. If you spot an error (or you think it might be an error), please email your instructor, the course coordinator, Rebecca Noonan Heale (rebecca@math.utah.edu), and post in the Canvas discussions. You will get one point of successful habits credit for reporting errors and we will try to respond quickly to fix errors or provide math support.
- **Homework Workshops:** There will be hour-long workshops for students to work on and discuss homework problems. These will be led by our LA and other LAs. Participating is one way to earn successful habits points. Times and location info will be given in Canvas.
- **Quizzes:** There will be quizzes every 3 classes. They will be given in class. The lowest 2 quiz grades will be dropped.
- **Check-ins:** There will be a check-in survey at the end of class on days when there are not quizzes or exams. You must attend class to take the check-in. At the end of the semester, 25% of the check-in grades will be dropped.
- **Two midterm exams.** See dates below. Review Material will be provided in class. You may/should prepare 1 sheet of notes (hand-written; can write on both sides) to use during the exam. You should also have a scientific calculator. No other materials are allowed during the exam.

- **Successful Habits:** Each week you will be asked to do one or more practices that contribute to your learning and success in this and future courses. Your goal is to accumulate 60 points during the 15-week semester. Options include:
 - Making posts in the Canvas discussions that contain your math thoughts. More information is in Canvas about what to put in a post. Each qualifying post earns 1 point.
 - Working with classmates in Office Hours and Homework Workshops (3 pts); working with your LA teacher at these events (2 pts)
 - Organizing and attending study-session with classmate. (2 pts for organizing!; 1 pt for attending = to get credit, these sessions should be announced in the Canvas discussions 24 hours ahead of time, all members of class invited and at least 2 people including the organizer should attend)
 - Reporting errors in the online HW. Each error is worth 1 point.
 - Completing 50% of each assignment 1 day before it is due. If you are stuck on any problems, make notes and bring questions about them to class. This is worth 1 point per assignment.
 - Reviewing your quiz from the previous week (1 pt)
 - Planning h to support your learning for the week that is coming up (1 pt)
 - Doing something of your choice (different from other habits) for your learning (1 pt)

There will be a Gradescope survey to fill out each week, where you will report which option(s) you chose and fill in information about them. This is due on Tuesday nights (grace period without penalty through Friday, 5am). You should aim for 5 points each week and you can earn up to 10. If you complete more than 5 points on average, by the end of the semester, the excess points become extra credit.

The successful habits/extra credit component of the course is there to support your learning and contribute positively to your grade. However, you have the option to opt out of habits (which also opts you out of extra credit through this category). To do so, contact your instructor after the first exam.

Final Exam: The Math 1090 final exam covers material not on previous exams and selected topics from earlier in the course. All topics will be announced at least 1 week before the final exam. The procedures will be similar to the midterm exams. If you do not take the final, you will get a grade of “E” in the class.

The Math 1090 final exam is a common exam, which means all 1090 sections take the exam at the same date and time, which is set by the University (see information below). You should arrange your schedule at the start of the semester to take the final at this time. Exceptions will be made if you are taking a different final at the same time or for extreme circumstances. You may choose to take the final early for your own convenience, but there will be a 15 % penalty for doing so.

CLASS SCHEDULE & IMPORTANT DATES

Tentative Schedule of Topics, Quiz, and Exam dates – to be adjusted as necessary

Week/Date	Sections Covered	Exams, Quizzes
1 (8/19 – 8/25)	1.1, 1.2, 1.3	
2 (8/26 – 9/1)	1.3, 1.4, 1.5, 1.6	Quiz on Thursday
3 (9/2 – 9/8) Labor Day: 9/2	1.6, 1.7, 1.8	
4 (9/9 – 9/15)	1.8, 2.1, 2.2, 2.3	Quiz on Tuesday
5 (9/16 – 9/22)	2.3, 3.1-FACT; 3.1- QUAD	Quiz on Thursday
6 (9/23-9/29)	Review and Exam 1	Exam 1 Thursday 9/26
7 (9/30 - 10/8)	3.2, 3.3	Quiz on Thursday
BREAK		
8 (10/14 - 10/20)	3.4-POLY, 3.6, 3.4PW	Quiz on Tuesday
9 (10/21 – 10/27)	3.7, 4.1, 4.2	Quiz on Thursday
10 (10/28 – 11/3)	4.3, 4.4, 4.5	Quiz on Thursday
11 (11/4 – 11/10)	Review, Exam 2	Exam 2 Thursday 11/7
12 (11/11 – 11/17)	4.6, 5.1	
13 (11/18 – 11/24)	5.2-5.4	Quiz on Tuesday

14 (11/25 – 12/1) Thanksgiving Break: 11/27 – 12/1	5.4-5.5	
15 (12/2 – 12/5) Reading Day: 12/6	Review	Quiz on Tuesday
Common Final Exam:		Tuesday, 12/10, 3:30-5:30 pm, Location TBA

Weekly Deadlines:

- Homework – due Tuesday and Friday at 11:59 PM through the Canvas assignment
- Quizzes – due in class most of the weeks (see schedule above)
- Check-ins – due in class most days
- Successful Habit Reporting – due on Tuesday at 11:59 PM in Gradescope

Additional Important Dates:

Classes begin: Monday, August 19th

Last day to add without a permission code/wait list: Friday, August 23rd

Last day to add or drop classes: Friday, August 30th

Last Day to Withdraw from Classes, Friday, October 18th

ASSIGNMENTS, ASSESSMENT, GRADING, & LATE POLICY

Assignment Category	Contribution to Grade	Adjustments (dropped at the end of the semester)
Homework	17%	Lowest 3
Quizzes	17%	Lowest 2
Check-ins	3%	Lowest 25%
Successful Habits	3%	Points above 60 count as extra credit
Exam 1	20%	
Exam 2	20%	
Final Exam	20%	Required. If you do not take it, you will get an E in the 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- [55-60),
E [0-55).

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:

Things will happen. Your internet will turn off right before a deadline. You will need to work late and forget to submit. You may get sick. If you miss a quiz, instead of having make-ups or extensions, a certain number of quizzes will be dropped at the end of the semester. These are for the emergencies (including the very serious ones).

The course is designed to provide flexibility if other ways as well. You have the option to turn in HW late for 80% credit. But in general, you are expected to turn things in on time and take quizzes and exams at the times given. If there are extenuating circumstances, please contact me in a timely way to discuss alternatives. If the situation is one that can be documented, you may be asked to provide documentation.

The University of Utah student code allows for making up quizzes or exams in advance for “officially sanctioned University Activities . . . , or government obligations, or religious obligations”. Please contact me at least one week in advance of any events.

Extreme Situations:

If you have an extraordinarily severe situation, contact me, your instructor. We can discuss adjustments to the above policies.

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:
 - University guidelines: <https://catalog.utah.edu/#/policy/B12v3LX0G?bc=true&bcCurrent=Grading%20Poli>
 - Dates for Choosing CR/NC <https://registrar.utah.edu/academic-calendars/spring2021.php>
 - 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.

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

Student Etiquette. Respectful participation in all aspects of the course will make our time together productive and engaging. Q Meetings, Office Hours, Discussion threads, emails, Canvas and assignments and are all considered equivalent to classrooms and student behavior within those environments shall conform to the student code.

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 Dear INSERT NAME HERE or Dear Instructor INSERT NAME HERE.. Sign your message with your name and return email address. Please consult this page for tips on how to write appropriate professional emails: <https://academicpositions.com/career-advice/how-to-email-a-professor>

Americans With Disabilities Act (ADA)

The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. All written information in this course can be made available in an alternative format with prior

notification to the [Center for Disability & Access](#) (CDA). CDA will work with you and the instructor to make arrangements for accommodations. Prior notice is appreciated. To read the full accommodations policy for the University of Utah, please see Section Q of the [Instruction & Evaluation regulations](#).

In compliance with ADA requirements, some students may need to record course content. Any recordings of course content are for personal use only, should not be shared, and should never be made publicly available. In addition, recordings must be destroyed at the conclusion of the course. If you will need accommodations in this class, or for more information about what support they provide, contact:

Center for Disability & Access
801-581-5020
disability.utah.edu
162 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

Safety at the U The University of Utah values the safety of all campus community members. You will receive important emergency alerts and safety messages regarding campus safety via text message. For more safety information and to view available training resources, including helpful videos, visit safeu.utah.edu. To report suspicious activity or to request a courtesy escort, contact:

Campus Police & Department of Public Safety
801-585-COPS (801-585-2677)
dps.utah.edu
1735 E. S. Campus Dr.
Salt Lake City, UT 84112

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, you are encouraged to report it to university officials:

Title IX Coordinator & Office of Equal Opportunity
and Affirmative Action

801-581-8365
oeo.utah.edu
135 Park Building
201 Presidents' Cir.
Salt Lake City, UT 84112

Office of the Dean of Students

801-581-7066
deanofstudents.utah.edu
270 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

To file a police report, contact: Campus Police & Department of Public Safety

801-585-COPS (801-585-2677)
dps.utah.edu
1735 E. S. Campus Dr.
Salt Lake City, UT 84112

If you do not feel comfortable reporting to authorities, the U's Victim-Survivor Advocates provide free, confidential, and trauma-informed support services to students, faculty, and staff who have experienced interpersonal violence.

To privately explore options and resources available to you with an advocate, contact:

Center for Student Wellness

801-581-7776

wellness.utah.edu

328 Student Services Building

201 S. 1460 E.

Salt Lake City, UT 84112

Academic Misconduct. It is expected that students comply with University of Utah policies regarding academic honesty, including but not limited to refraining from cheating, plagiarizing, misrepresenting one's work, and/or inappropriately collaborating. This includes the use of generative artificial intelligence (AI) tools without citation, documentation, or authorization. Students are expected to adhere to the prescribed professional and ethical standards of the profession/discipline for which they are preparing. Any student who engages in academic dishonesty or who violates the professional and ethical standards for their profession/discipline may be subject to academic sanctions as per the University of Utah's Student Code: [Policy 6-410: Student Academic Performance, Academic Conduct, and Professional and Ethical Conduct](#).

Plagiarism and cheating are serious offenses and may be punished by failure on an individual assignment, and/or failure in the course. Academic misconduct, according to the University of Utah Student Code:

"...Includes, but is not limited to, cheating, misrepresenting one's work, inappropriately collaborating, plagiarism, and fabrication or falsification of information...It also includes facilitating academic misconduct by intentionally helping or attempting to help another to commit an act of academic misconduct."

For details on plagiarism and other important course conduct issues, see the U's [Code of Student Rights and Responsibilities](#).

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.

Student Wellness. Your personal health and wellness are essential to your success as a student. Personal concerns like stress, anxiety, relationship difficulties, depression, or cross-cultural differences can interfere with a student's ability to succeed and thrive in this course and at the University of Utah. Please feel welcome to reach out to your instructor or TA to handle issues regarding your coursework.

For helpful resources to manage your personal wellness and counseling options, contact:

Counseling Services

801-581-6826

counselingcenter.utah.edu

Student Services Building

201 South 1460 East, Rm 426

Salt Lake City, UT 84112

Center for Student Wellness

801-581-7776

wellness.utah.edu

2100 Eccles Student Life Center

1836 Student Life Way

Student Support at the U. Your success at the University of Utah is important to all of us here. If you feel like you need extra support in academics, overcoming personal difficulties, or finding community, the U is here for you. Please refer to the [Student Support Services page for the U](#) for updated information.

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 or call 801-581-7066. There is more information at <https://deanofstudents.utah.edu/> .

Basic Needs Student Support Statement. Success at The University of Utah includes learning about and using available resources. The [Basic Needs Collective](#) (BNC) is a coordinated resource referral hub. They educate about and connect students to campus and community resources to help them meet their basic needs. As a central location for resource referrals related to food, housing, health insurance, managing finances, legal services, mental health, etc., any student experiencing difficulty with basic needs is encouraged to contact them. Drop into their office located in the Union basement or schedule with them online for an in-person or virtual visit through their webpage: <https://basicneeds.utah.edu/>.

Names/Pronouns. Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name. Class rosters are provided to the instructor with the student's legal name as well as "Preferred first name" (if previously entered by you in the Student Profile section of your CIS account, which managed can be managed at any time). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in class or on assignments. Please advise me of any name or pronoun changes so I can help create a learning environment in which you, your name, and your pronoun are respected.

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