

Mathematics 1090-090
Spring 2020

INSTRUCTOR INFORMATION:

Instructor: Keyvan Yaghmayi
Pronouns: He\His\His
What to call me: Keyvan (like K1)
Office: JWB 121
Email: yaghmayi@math.utah.edu

COMMUNICATION: You may contact me by e-mail or through Canvas-mail. When e-mailing me, please include “1090” in the subject line. All announcements for the course will either be posted in quiz format on the Canvas website (these are graded) or sent by Canvas-mail.

OFFICE HOURS: There will be in-person office hours **twice** each week. No appointment is necessary to come to office hours.

- **Mondays 10:40-11:30 am in JWB 121**
- **Thursdays 3:40-4:30 pm in JWB 121**

I am also happy to schedule office hours by appointment, especially on **Friday mornings or afternoons**.

ONLINE OFFICE HOURS:

- **Mondays** from 8:00-8:50 pm. Online office hours will be held on Monday January 13, (January 20 is a holiday), January 27, and February 3.

If at least one student is attending online office hours, they will continue every **Monday at 8:00 pm** after this; if students are not attending, then online office hours will switch to be by appointment. Whether hours are continuing or by appointment will be announced in weekly announcements.

Participating in one of these is similar to making a Skype call while watching a math video. To attend, go to conferences in Canvas. You can use a microphone and speakers, dial in by phone, or do text chat.

ALTERNATIVE MEETINGS: If the times above are not convenient for you, contact me about setting up a meeting or office hour at an alternative time.

COURSE INFORMATION:

Math 1090, College Algebra for Business and Social Sciences is a 3-credit semester course.

PREREQUISITES:

Prerequisites: At least a C grade in Math980 (Beginning Algebra), Math1010 (Intermediate Algebra) OR Math1030 (Quantitative Reasoning) 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 570.

Important Note: The mathematics department DOES enforce prerequisites for all undergraduate courses. If you were able to register for this class based on your enrollment in the prerequisite course last semester and you did not receive the minimum grade in that course to enter this class, then you will be dropped from this class on Friday of the first week of classes. If you are in this situation, it is in your best interest to drop yourself from this class and enroll in a class for which you have the prerequisites before you are forcibly dropped.

WEEKLY WORKLOAD:

This is an online course, but still an intense course. According to the University of Utah, a 3-unit course should have about 3 hours of lecture and 6 hours of outside study/homework time. This means that our online course, will take the average student about 9 hours per week. (In the summer when we complete the semester in 12 weeks instead of 15, students should plan to spend about 11 hours on this course per week!) Some students will be able to get by on less, and some student will need more.

Each week, we cover specific sections. You can choose when you work on the material in the week, keeping your objective and topic goals in mind, but you can't complete the course at your own pace.

COMMUNICATION EXPECTATIONS IN AN ONLINE COURSE:

Most course announcements will be posted in announcement quizzes on Canvas. You are expected to take the course information quizzes at the start of the course, the weekly quizzes at the start of each week, and the exam-related quizzes when posted. In between announcement, I will send updates and reminders by e-mail in Canvas. You should check your Canvas mail

approximately every 2-3 days, including late Wednesday or early Thursday (when I will send out e-mails if students need to resubmit quizzes.)

IS ONLINE RIGHT FOR YOU?

Before committing to this course, consider whether the online format matches your learning style. To aid in this, please look at: [A: Online?](#)

DATES:

Weekly Due Dates:

- Online HW due each Tuesday at 11:59pm.
- Quiz every Tuesday night in Canvas at 11:59pm.

Exams (Schedule at a time between the dates below):

- Exam 1: Wednesday February 12 – Saturday February 15
- Exam 2: Wednesday March 25 – Saturday March 28
- Final: There are two options:
 - Common Final: Wednesday April 29, 3:30-5:30 pm, on U of U main campus, location TBA
 - Alternative Final: Thursday April 23 - Monday April 27

Other dates:

- Drop date: Friday January 17
- Withdrawal date: Friday March 6

GRADING:

The grades will be calculated as follows:

- Announcement Quizzes 2%
- Weekly Homework 10% (lowest 5 assignments dropped)
- Weekly Quizzes 18% (lowest 2 quizzes dropped)
- Midterms 1 & 2 40% (20% each)
- Final Exam 30%

The grading scale is:

A 93% - 100%

C+ 77% – 79.9%

D- 55% - 59.9%

A- 90% - 92.9%

C 73% – 76.9%

E below 55%

B+ 87% - 89.9%

C- 70% – 72.9%

B 83% - 86.9%

D+ 66% – 69.9%

B- 80% - 82.9%

D 60% – 65.9%

COURSE MATERIALS:

COURSE WEBSITE:

Canvas <https://utah.instructure.com/>. It is a good idea to save this address, so that you can get to Canvas without going through CIS. Usually once or twice a term, CIS goes down, so the alternative access is useful.

TEXT:

Business Algebra, 3rd edition, by Kelly MacArthur, published by Kendall Hunt, ISBN: 978-1-5249-9340-5. See the following link for more information:

<http://www.math.utah.edu/schedule/bookInfo/Math1090BookInfo.pdf>

There are also copies of the textbook to borrow at the Marriott library reserve desk and the math tutoring center.

RECORDED LECTURE VIDEOS:

They are available through the modules or in both streamable and downloadable versions at <http://www.math.utah.edu/lectures/math1090.html>. (It's good to save this address somewhere else, in case Canvas is down)

CALCULATORS:

For exams, you will be allowed to use a scientific calculator, but only a calculator from this approved list of calculators. This will also be true on the final exam. If you use a calculator that is not on the list, contact me and I will determine if it can be added to the list.

<http://www.math.utah.edu/~strube/MATH1090ApprovedCalculators>

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.

Expected Learning Outcomes: Upon successful completion of this course, a student should be able to:

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.

HELP/RESOURCES:

Contacting me by my e-mail, coming into office hours, or setting up an appointment is the first way to get help. I am happy to talk about individual problems, mathematical concepts, or help you make a study/learning plan. Please seek help early in the term.

You can also get tutoring through the following:

- **Math Tutoring Center (drop-in tutoring, computer lab, group tutoring).** This is free to all students. It is in the underground passage between JWB and LCB, Room 155. See <http://www.math.utah.edu/ugrad/mathcenter.html> for hours.
- **Private Tutoring:** University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB 233.
- **Computer Lab:** Also, in the T. Benny Rushing Mathematics Student Center, Room 155C. See <http://www.math.utah.edu/ugrad/lab.html> .
- **ASUU Tutoring in the evenings at the Marriott Library.** See <https://tutoringcenter.utah.edu/tutoring-services.php> for details.

BREAKDOWN OF COURSE:

Each week, we cover specific sections. You can choose when you work on the material in the week (as long as you meet deadlines), but you cannot complete the course at your own pace, as there are specific due dates throughout the semester.

The course week starts on a Wednesday and ends on a Tuesday. Due dates for assignments and quizzes are on a Tuesday. This allows students to get more feedback on the last two days of the week. (So, Week 2 in our class spans the end of University Week 2 and the start of University Week 3).

Here is a more detailed description of both graded and non-graded aspects of this course.

- **Reading Announcements on Canvas.** Course documents and announcements are given in quiz format and have a short quiz about the content at the end. These "quizzes" begin with "A:..." Completing these is worth 2% of your grade. Suggested due dates are shown, but these can be completed at any time before the common final.
- **Reading** from your **textbook**.
- **Watching the video lectures.** These were produced by the U of U math department. They are available in Canvas or on the math department website. If you find a video isn't addressing your questions, ask me for additional resources.

- **Weekly Homework:** HW assignments are posted in Canvas. The problems are taken from the book. You should write them on paper, make PDFs of the assignment, then upload them in Canvas. There are directions on Canvas for how to correctly submit the homework. **You are responsible for submitting your assignment with the correct format and correct file extension.** If you submit with the wrong format, the first two times you will be warned and asked to resubmit in a given window. There will be no penalty the first time and a 10-point deduction the second time. After this, submissions with incorrect format will get a 0. **I don't accept late HW assignments, but I will drop your lowest 5 HW assignment scores at the end of the semester.** Homework assignments are due weekly on Tuesdays at 11:59pm. The homework is worth 10% of your overall grade.

- **Weekly Paper-Based Quizzes:** There will be quizzes weekly, except for exam weeks. Any exceptions will be communicated in the weekly announcements. You can access them on Friday (earlier by special arrangement) and they are due on Tuesdays at 11:59pm. You will print the quiz, complete it and upload it through Canvas by the due date. There are directions on Canvas for how to correctly submit the homework. **You are responsible for submitting your assignment with the correct format and correct file extension.** If you submit with the wrong format, the first two times you will be warned and asked to resubmit in a given window. There will be no penalty the first time and a 10-

point deduction the second time. After this, submissions with incorrect format will get a 0. The quizzes are worth 18% of your grade. The lowest two quiz scores will be dropped at the end of the term.

- **Exams:** There will be two midterm exams. Each exam is worth 20% of your grade. You must schedule your exams and final through the "Schedule Exams" link on Canvas. Exams will be administered at the Uonline Exam Services testing center (in the Marriott Library), at satellite testing center in Sandy, or if you are out of area, with a proctor that you set up and register with Uonline. There will be practice material provided prior to each exam. You are allowed to use specified scientific calculators. You are not allowed to use notes or the textbook. More information about exams, including how to set up a proctor, can be found here: [A: Exams](#). Midterm dates are:
 - Midterm 1: Wednesday February 12 – Saturday February 15
 - Midterm 2: Wednesday March 25 – Saturday March 28
- **Common Final:** The final is comprehensive and worth 30% of your grade. All the students in Math 1090 at the University of Utah take the same common final at the same time, including online students. However, if you are an online student and unable to be at the common final due to the time or location, you are allowed to take an alternative final exam at the testing center or with a proctor at an earlier time. See the exact dates below.
 - Common Final: Wednesday April 29, 3:30-5:30 pm, on U of U main campus, location TBA
 - Alternative Final: Thursday April 23 - Monday April 27
- **Extra Credit:** Extra credit, worth between 3-6% or more of your course grade, can be earned for participating in online discussions (by asking or answering questions with significant mathematical content) or by spotting errors in course materials. See [A: Extra Credit](#) for details.

HOMEWORK, QUIZZES, and EXAMS POLICIES:

- You have a 5-day window to complete quizzes. Under special circumstances, you may request them up to two-days earlier than this. Please request this at least 48 hours before you would like to access the homework or quiz.
- You can access list of all assigned HW problems in Canvas at the start of the semester.
- You are expected to turn things in on time. It is your responsibility to maintain your computer and related equipment in order to participate in this online course. Equipment failures will not be an acceptable excuse for late or absent assignments. Similarly, it is

your responsibility to start assignments early enough, so that even if you are in traffic, your flight gets delayed, you are called into work, your run out of ink, you do work for another class, etc., you still have time to deal with the situation and then finish the assignment.

- However, because things may happen that will prevent you from turning in assignments on time, the five lowest HW and the two lowest quiz scores are dropped at the end of the semester.
- You should submit the quiz in the same Canvas assignment where you download it. You should also upload scanned HW into the same assignment in Canvas.
- Quizzes and HW are due Tuesday nights. There is no penalty for submitting before this time.
- If your quiz is on time, but you send the quiz to me instead of uploading it in Canvas, there is a 10-point penalty. This is because it is more time consuming to upload it into Gradescope when sent this way. Same for HW assignments. HW will not be accepted by e-mail.

EXAMS POLICIES:

- You can take exams up to a week early, upon well-planned request. Please let me know at least 7 days before you wish to take the exam.
- You have a multi-day window to take exams. It is recommended that you complete these during the middle of the window, in case something arises at the end which would prevent you from completing them.

EXTREME SITUATIONS:

If you have an extraordinarily severe situation, contact me (The fastest way is emailing me at yaghmaya@math.utah.edu). Send documentation if possible. If not possible, still contact me to discuss alternatives.

COMMUNICATION IN AN ONLINE COURSE

Discussion threads, e-mails, and chat rooms are all considered to be equivalent to classrooms, and student behavior within those environments shall conform to the Student Code. Specifically:

- Using angry or abusive language is called "flaming", is not acceptable, and will be dealt with according to the Student Code.
- Do not use ALL CAPS, except for titles, since it is the equivalent of shouting online, as is overuse of certain punctuation marks such as exclamation points !!!! and question marks ?????.

CENTER FOR DISABILITY & ACCESS

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 me 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.

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> (Links to an external site.)

PREFERRED NAME AND PRONOUN

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). 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 correspondence, discussions, in office hours and on assignments, etc. Please advise me of any name or pronoun changes (and update CIS) so I can help create a learning environment in which you, your name, and your pronoun will be respected. If you need assistance getting your preferred name on your UIDcard, please visit the LGBT Resource Center Room 409 in the Olpin Union Building, or email bpeacock@sa.utah.edu to schedule a time to drop by. The LGBT Resource Center hours are M-F 8am-5pm, and 8am-6pm on Tuesdays.

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 the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or 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 the police, contact the Department of Public Safety, 801-585-2677(COPS).

WELLNESS STATEMENT

Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness at www.wellness.utah.edu or 801-581-7776.

SAFETY STATEMENT

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 safeu.utah.edu.