Course Syllabus
Mathematics 1090, Section 090, Spring 2019
Business Algebra

Instructor: Christian Klevdal
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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. There will also be online office hours once a week. If attendance is low during the first 4 weeks, online office hours will switch to being by appointment. Participating in one of these is similar to making a Skype call while watching a math video. To attend, go to conferences in Canvas. No appointment is necessary to come to office hours.

- Monday 2:00-3:00 in LCB 112.
- Tuesday 11:30-12:30 in LCB 112.
- Thursday 6:30-7:20 pm Online.

I am also happy to schedule additional office hours by appointment. If the times above are not convenient for you, contact me about setting up a meeting or office hour at an alternative time.

Text: *Business Algebra*, by Kelly MacArthur, 3rd edition. ISBN: 9781524970420. 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.

Prerequisites: At least a C grade in Math 980 (Beginning Algebra), Math 1010 (Intermediate Algebra) OR Math 1030 (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.

Weekly workload: Since this is a 3 credit course, you should expect to spend at least 9 hours 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: 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 announcement quizzes at the start of each week, and the exam-related quizzes when posted. In between announcements, I will send updates and reminders by e-mail in Canvas. You are expected to check your Canvas mail regularly.

Weekly deadlines and important dates: Each week for us will begin on a Wednesday and finish on the following Tuesday; with the exceptions of week 1, which is January 7th - January 15th, and week 9 which is March 6th - March 19th (because of spring break). On weeks without exams, you will have to take a quiz and turn in a homework assignment. On weeks with exams, you will have to take the exams between Wednesday and Saturday (you may also take them earlier if I approve this in advance). Here are the important due dates:

Homework	Quizzes	Exam 1	Exam 2	Departmental Final
Tuesday 11:59pm.	Tuesday 11:59 pm.	Feb 13-16	Mar 27 - Mar 30	April 30th, 3:30-5:30

You may also take an alternative final between April 25th - April 27th if you have a scheduling conflict with the departmental final. The other important dates are:
Drop date: Friday, January 18
Withdraw date: Friday, March 8

Is online right for you? Taking an online course is a very different experience than taking a traditional classroom course. Before committing to this course, consider whether the online format matches your learning style. If you have any questions about whether online is right for you, please don't hesitate to ask me.

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.

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`.

Calculators: It is not necessary, but you may want a calculator. For exams, you will be allowed to use a scientific calculator, but only a calculator from this approved list of calculators `http://www.math.utah.edu/~strube/MATH1090ApprovedCalculators`. This will also be true on the final exam.

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: I am available to answer questions by e-mail, in office hours, or by appointment. 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 may also post questions in the Canvas discussion board.

If you are looking for tutoring, I recommend 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`
- Private Tutoring: University Tutoring Services, 330 SSB. There is also a list of tutors at the Math Department office in JWB 233.
- ASUU Tutoring in the evenings at the Marriott Library. See `https://tutoringcenter.utah.edu/tutoring-services.php`

Breakdown of Course: The course week starts on a Wednesday and ends on a Tuesday. These will be listed on Canvas where there is a schedule of which videos to watch. Here is a rough sketch of deadlines in given (non exam) week.

Wednesday	Thursday	Friday	Monday	Tuesday
Announcement quizzes	Homework posted	Quiz posted		Homework and Quiz due

In addition, you will have to watch the lecture videos for the week, and you may do this at your own pace (though the material covered in lecture videos is necessary to complete homework and quizzes). During exam weeks, you will not have to submit quizzes or homework, instead you will be required to take the exam at the testing center sometime between Wednesday and Saturday.

Homework: Each Thursday, I will assign you a number of problems from the book, which will be due at the end of the week, which is Tuesday. You will do them on your own paper, scan them and submit them through 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 (out of 100 points) the second time. After this, **submissions with incorrect format will get a 0.** I will drop the two lowest homework scores.

Quizzes: Each Friday, I will post a quiz, which will be due at the end of the week. 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 quizzes. **You are responsible for submitting your quiz 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 (out of 100 points) the second time. After this, **submissions with incorrect format will get a 0.** I will drop the two lowest quiz scores.

Exams: You will have two mid-term exams, which will be administered at the Uonline Exam Services testing center (in the Marriott Library), at a satellite testing center in Sandy, or if you are out of area, with a proctor that you set up and register with Uonline. You are responsible for setting up a time to take your exam through the testing center in the given dates (which will be the Wednesday-Saturday of the exam week). If these dates do not work for you, you may take the exam earlier (but not later) than the given dates. If this is the case, please email me and we can decide on a time. More information about exams, including how to set up a proctor, can be found on Canvas.

Exam 1: Wednesday February 13, 2019 - Saturday February 16, 2019
Exam 2: Wednesday March 27, 2019 - Saturday March 30, 2019

Final: The final is comprehensive. All the students in Math 1090 at the University of Utah take the same common final at the same time, including online students. The date for the common final is

Common Final: 3:30pm - 5:30pm, Tuesday April 30, 2019

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. The alternative final must be scheduled between the following dates.

Alternative Final: Thursday April 25, 2019 - Saturday April 27th, 2018

Grading Policy: The grading scale is:

Announcement quizzes:	2 %
Homework:	10 %
Quizzes:	18 %
Mid-term exams:	40% (20% each)
Final Exam:	30%

The lowest 2 homework scores and the lowest 2 quiz scores will be dropped at the end of the term.

Grades (Evaluation and criteria): Final letter grades will be determined by overall percentage as follows:

A	93% – 100%	B-	80% – 82.9%	D+	67% – 69.9%
A-	90% – 92.9%	C+	77% – 79.9%	D	63% – 66.9%
B+	87% – 89.9%	C	73% – 76.9%	D-	60% – 62.9%
B	83% – 86.9%	C-	70% – 72.9%	E	0% – 59.9%

Early policy: You have a 5-day window to complete quizzes. Under special circumstances, you may request them up to 2 days earlier than this. You must request this at least 48 hours before you would like to access the quiz. You can also take exams up to a week early, upon request. In this case, you must let me know at least 7 days before you wish to take the exam. Students are encouraged to take the departmental final. If this time or location is inconvenient, you may schedule an earlier alternative final either at the Uonline testing center or with a proctor. Again, you must let me know at least 7 days before you wish to take the final.

Late policy: Since there is flexibility in all deadlines for quizzes and homework, late work will not be accepted, unless there are an extreme and documentable reasons for not being able to complete the work in the allotted time (e.g. if you are hospitalized for all five days that a quiz is available and open). Similarly, there is a multiple day window for all exams. However if you miss an exam for big, documentable reasons, you may contact me in a timely way about rescheduling the exam.You will need to provide documentation in order to retake the exam.

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 and 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`

Preferred Name and Pronoun: Class rosters are provided to the instructor with the student's legal name as well as Preferred first name. 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).

Cheating: If you cheat on any homework, quiz, project or exam, I will give you a grade of zero for that work. Depending on the severity of the cheating, I may decide to fail you from the class. In all cases, I will report the incident to the Dean of Students, and to the International Students Office in the case of an international student.

Disclaimer: This syllabus may change during the semester. If I do any modification to this syllabus, I will let you know on Canvas.