Mathematics 1090
Spring, 2019

Instructor: Donald Chacon-Taylor

Class Time and Place: 9:10-10:30 a.m.
Tuesday and Thursday
in WEB L114

Office Hours: TBD

Office Location: JWB 319
E-mail address: dct (at) math.utah.edu
Class Web Page: http://math.utah.edu/~dct (go to Current Teaching and our class)

Text: Business Algebra, 3rd edition, published by Kendall Hunt,
(ISBN: 9781524970420)
Book Purchasing Instructions:

Course Information: Math1090, College Algebra for Business and Social Sciences is a 3-credit semester course.

Prerequisite: 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.

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.

Grading: The grades will be calculated as follows:
Homework 10%
Quizzes 15%
Midterm 20%
Midterm 20%
Midterm 10%
Final Exam 25%
(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: I will collect homework on Tuesdays of each week. All of the
homework assigned from sections covered in the previous week is due
at that time.
• Each section of homework will be worth ten points. For example, if you have
three sections of homework assigned, then that homework set is worth a total of
30 (raw) points.
• Homework will be marked for completion so write full solutions not just
answers
• I will accept 10 late homework sections, up to two weeks late, throughout
the semester for full credit.
I will not accept homework more than two weeks late. It is neither necessary nor
recommended that you tell me why your homework is late. This policy is meant
to be flexible enough to cover all reasons.
• I only collect homework on Tuesdays!! If you need to turn in homework late,
you will have to do so on a Tuesday in class (within two weeks from its due
date). This is the only time and location that I will accept homework.
You are responsible for knowing these policies.

Weekly Quizzes: There will be weekly in-class quizzes, every Thursday, except for test
weeks. I reserve the right to start the quiz at any time during the Thursday class
period. The quiz will cover the material covered in the previous week. All
quizzes will be group quizzes and I'll assign the groups in Canvas. There will be
no make-up quizzes. No exceptions. If you're late to class or miss class and thus
miss the quiz for any reason whatsoever, you will have to use that as one of your
dropped quiz scores. There will be roughly 13 or 14 quizzes throughout the
semester. Your lowest three quiz scores will be dropped.

Midterms: There will be three one-hour midterm exams throughout the semester, and
the dates will be fixed, according to the course outline/schedule that is on our class web page. They will be during normal class time, in our usual classroom.

**Final Exam:** The final exam for this class is comprehensive and will occur during the regularly scheduled final exam time, given by the University. For Spring 2019, the final exam is scheduled on **Tuesday, April 30th, from 3:30 to 5:30 pm**. Please put this date in your calendar now, as there will be no opportunity for a later or make-up final exam. 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:** 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. [http://www.math.utah.edu/~strube/MATH1090ApprovedCalculators](http://www.math.utah.edu/~strube/MATH1090ApprovedCalculators)

**Lecture Videos:** There is a complete set of lecture videos for this course, at [http://www.math.utah.edu/lectures/](http://www.math.utah.edu/lectures/) (go to 1090 lecture videos page from there). These videos may be helpful additional resources for your success in this course.

**Tutoring Lab:** T. Benny Rushing Mathematics Student Center (adjacent to JWB and LCB), Room 155
M - Th 8 a.m. - 8 p.m.
F 8 a.m. - 6 p.m.
(opens Wednesday) (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](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.
M - Th 8 a.m. - 8 p.m.
F 8 a.m. - 6 p.m.
Link to computer lab is [http://www.math.utah.edu/ugrad/lab.html](http://www.math.utah.edu/ugrad/lab.html)
Grading Scale: 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 (which is uncommon), I will simply shift the
thresholds down by a few points (whatever is necessary).

Additional Policies:
- I reserve the right to change my policies stated in this syllabus at some 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.
- No laptops (except for tablets that students are writing on with a tablet pencil and using for
  note-taking) will be allowed in class, in order to minimize distractions to other students.

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

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, veterans
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).
**Student Names and Personal Pronouns:** Class rosters are provided to the instructor with the students 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 class, on papers, exams, group projects, 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 U-ID card, 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.

**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.

**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 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.

2. 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.

3. If there is ever a time that you feel this course or the curriculum is not equitable, please email me or meet with me to discuss your concerns so we have a chance to address that.