<u>MATHEMATICS   1030</u> – Section 6
Introduction to Quantitative Reasoning   (3 credits)
9:40am– 10:30 am MWF   JFB 102

<u>Textbook:</u> *Using and Understanding Mathematics: A Quantitative Reasoning Approach*, by Jeffrey O. Bennett and William L. Briggs (custom edition for University of Utah, taken from the sixth edition)
ISBN-10: 1-269-74850-5
ISBN-13: 978-1-269-74850-6

A. The least expensive option for the book is to buy it through the Inclusive Access Program. An email will go out to all math 1030 students (sent by the bookstore to your name/number@utah.edu email address) prior to the first day of class with information on what Inclusive Access is and instructions on how to access the digital course materials. If you (the student) decide you don't want the instant access to the course materials you will have the option to OPT OUT and will be refunded accordingly. Students still need to pay for the course materials cost along with their tuition, but once you OPT OUT during the first two weeks of class you will receive a full refund of the course material cost. You will then be responsible for obtaining your own course material/textbook for that course. Through the Inclusive Access Program, students will receive a digital copy of the book. The students' cost for math 1030 access is $39.00.

B. If a student wishes to order a hard copy of the book, he/she can talk to Shane Girton (U of U Bookstore) and a copy of the book can be special ordered. The new copy of the custom version for the U of U is $110.

C. A student can choose to rent the book (180-day rental) or buy eTextbook at the following website:
https://www.vitalsource.com/products/using-and-understanding-mathematics-a-jeffrey-o-bennett-v9780321912343
The current cost for math 1030 book is $41.99 through this website.

D. The book can be rented/purchased through a variety of vendors, such as eBay, Amazon or similar websites. The cost is usually more than the Inclusive Access cost and it changes daily.

NOTE: Before you purchase the textbook please make sure that Math 1030 is a good fit for you and you are not planning to withdraw from the class. Some vendors will not allow you to return the book for a refund if you decide to withdraw. Please read all policies associated with the return/refund before you purchase and pay for the book.

Instructor: Rebecca Noonan Heale; office JWB 213
Pronouns: she/her/hers
e-mail address : rebecca@math.utah.edu

Quiz/exam solutions, grades, any reviews and other hanouts will be posted on Canvas.

Video lectures are available through the Departmant of Mathematics.
http://www.math.utah.edu/lectures/math1030.html

Office hours: Tuesdays 1:00 – 2:00 pm
Fridays 10:45 – 11:35 am

Prerequisites: "C" or better in MATH 980 (Algebra for College Success) or Math 1010 (Intermediate Algebra) OR Accuplacer EA score of 60 or better OR ACT Math score of 19 or better OR SAT Math score of 500 or better.
This means that you should be able to manipulate variable expressions, work with simple linear equations and graphs, work with fractions and exponents, and know the basic properties of simple geometric shapes.
(Note: Math 1030 does not satisfy a Math 1050 or Math 1090 prerequisite.)

Course objectives: Math 1030 course will fulfill the Quantitative Reasoning – Math QA, general education requirement for graduation. This course addresses the following Essential Learning Outcomes: inquiry and analysis, critical thinking, written and oral communication, quantitative literacy, teamwork, and problem solving.

Math 1030 is an application-based course centered around the use of mathematics to model changes in the real world, and the effective communication of these mathematical ideas. The course is based on Chapters 1-4, 8,9, and Chapter 10 (sec. A). You are expected to read each section that we cover.

For every hour of lecture, the university suggests that you invest 2-3 hours of additional work (every week). This means that for this 3 credit hour class, you need to put in 6-9 hours of additional work on a weekly basis.

At the end of the course a student should be able to:
• use Venn diagrams to examine relationships between sets and the validity of simple deductive arguments
• use an appropriate sentence to describe both the absolute and percent change in a given quantity and interpret such statements about the change
• use simple and compound units, making conversions when necessary, and develop accurate comparisons between units
• evaluate the impact of compound interest on simple financial decisions
• use the savings plan and loan formulas to calculate the payment amount into the savings plan when a certain financial goal needs to be achieved, to calculate the mortgage payment or

interest paid over the life of the loan and discuss whether those results are realistic (or not), compare several loans with different interest rates in order to make financial decisions
- compare and illustrate the features of linear and exponential growth using practical examples
- determine simple areas, volumes, and explain the differential effect of scaling on perimeter, area, volume as well as some of the practical implications of scaling

Homework: Homework problems are assigned for each section. Homework will be due two class periods after a section is covered. Homework should include a cover sheet (passed out in class), be stappled and not have raggedy edges. The coversheet will contain more information about how the assignment is graded. Late homework will not be accepted (including HW turned in in the second half of class), but the lowest four homework grades will be dropped at the end of the semester. Homework can be turned in early if necessary. I will be answering homework questions at the beginning of each class (whenever possible).

Quizzes: Approximately every 2 weeks there will be a quiz. The quiz problems will be very similar to the textbook examples/problems and examples that we have done in class; or the assigned suggested homework problems. No make-up quizzes will be given, but the lowest 3 quiz grades will be dropped at the end of the semester for all students.
I can only provide a make-up quiz for University excused absences (band, debate, student government, intercollegiate athletics, etc.) or military duty with an official documentation addressing the reason for absence.

Check-Ins: Approximately every 2 weeks there will be a check-in, where you are asked to answer a few questions in writing about course material. No make-up check-ins will be given, but the lowest 3 check-in grades will be dropped at the end of the semester for all students. The make-up policy is the same as for quizzes.

Exams: You will have 2 exams (50 minutes each). You MUST bring a valid ID to the exam. Absence from an exam will be excused only if you can provide verifiable and convincing evidence that you have a significant illness or serious personal or family crisis that will prevent you from attending. Except under extremely unusual circumstances, you must inform me at least 5 days in advance of the missed test, and you must take the make-up exam prior to the actual exam date. University excused absences (band, debate, student government, intercollegiate athletics, etc.), military duty or religious obligations are excused with an official documentation addressing the reason for absence. You are expected to promptly make arrangements with me to make up the test. Vacation or work schedule are not considered to be excused absences.

The first exam is scheduled for February 20th (Wednesday) and the second exam is scheduled for April 10th (Wednesday). Please plan ahead of time.

NOTE: Students with planned absences when quizzes or exams are given must take alternate quizzes or assignments BEFORE they go. Usually these will be taken at the Exam Services at the Marriott Library. This center is typically open from 9am-5pm Monday-Friday, from 9am-8pm on Thursday and from 9:30am-1:30pm on Saturday. Students must register for a time-slot to take their quiz or exam.

Project: You will have one project to turn in. The project will be due at the end of the 12th week of the semester, Friday – April 5th, 2019 (due at the beginning of lecture). You will be given the list of topics about 8 weeks before the project is due, and you will work in groups (that you form) of about 2-3 students on a topic that you select from the list. We will discuss the format and expectations for this project before you start working on it. Late projects are accepted with penalty of 3 points for each time the class meets and the group does not turn in the project. (The project is worth 30 points total.) (If is is turned in on Monday, 4/14, 3 points are deducted; if it is turned in on Wednesday, 4/16, 6 points are deducted, etc.)

Final Exam (comprehensive/departmental): **April 25th (Thursday)**
3:30-5:30 pm

This date and time is assigned by the Univeristy of Utah scheduling office. You can view the Spring 2019 final exam schedule at (math 1030 is listed under the departmental finals): http://registrar.utah.edu/academic-calendars/final-exams-spring.php

The final exam will be in our classroom. If there is a location change, the scheduling office will let me know in advance and I will make an announcement in class and on Canvas during the last few weeks of the semester.

Students are not allowed to take early/late departmental final exams. Please do not schedule a trip before this date and do not ask me to give you extra time to study.

Grading Policy: Your grade will be based on:

Homework (after 4 dropped)	7%
Quizzes (after 3 dropped)	12%
Check-Ins (after 3 dropped)	1%
Group Project	20%
Exams (2 exams)	30% (15% each)
Final exam	30%

Course Grades (Evaluation methods and criteria):
Your final letter grade will be determined by your overall percentage as follows:

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+	65% – 69.9%		
B-	80% - 82.9%	D	60% – 64.9%		

Calculators: You will need a calculator for this course. A scientific calculator will be sufficient. You are required to bring the calculator to every lecture/exam since I do not provide the calculator for students. You are not allowed to use your cell phone as a calculator.

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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 Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

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).

Student Names and Personal Pronouns statement: 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 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 UID 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.

Important Dates:

- last day to add without a permission code – Friday, January 11th
- last day to add, drop (delete), elect CR/NC, or audit classes – Friday, January 18th
- last day to withdraw from classes – Friday, March 8th

All important dates can be seen at: http://registrar.utah.edu/academic-calendars/spring2019.php

Tutoring: The Rushing Math Center offers free drop-in tutoring, a computer lab, and study areas for undergraduates. The Rushing Student Center is adjacent to the LCB and JWB. The hours for the Fall/Spring semester are: 8 am – 8 pm Monday-Thursday and 8 am – 6 pm on Friday. Tutors are there to help you understand the material, not to do the homework for you. Please be aware that there are many tutors with a variety of teaching styles and it may take you a few tries to find the tutor that works best with you.

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 discreetly 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/last name (the preferred name you chose does indeed show up in CIS on my roll sheet, but not yet in Canvas), please let me know. It also helps if you 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.
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 I have a chance to address that

Additional Policies: Due to experience, I have decided to make some additional policies regarding my classroom administration and grading.

- Laptops are not allowed in class, to avoid distracting other students. However, if you are writing digitally using a tablet, iPad, hybrid laptop, or similar device which can lay flat on your desk, that is totally fine.

- Cell phones should be put away during class. If there is an emergency situation, let me know. If you need to use your phone during class, please leave the classroom.

- There will be no retakes of exams, for any reason.

- If you have crisis-level extenuating circumstances which require flexibility, it is completely your responsibility to communicate with me as soon as possible so I can help you in some manner. The longer you wait to communicate with me, the less I can and am willing to do to help.

- I will kindly demand respectful behavior in my classroom.

- There will be no cursing nor negative ranting (for example, "math sucks") on any written work turned in. The penalty for such things on written work will be a zero score on that assignment or test.

- Since I send out class announcements and messages through Canvas, it is important that you check Canvas regularly, or have announcements and messages forwarded to an email address that you check regularly.

- If you have questions about any exam/quiz/homework grade, or you want to appeal the grading of the exam/quiz/homework, you must bring it to me within one week of it being returned. I'm happy to look it over with you, answer any questions you have, and fix any grading issues when appropriate.

- Please make sure you do your best throughout the semester, knowing the grading scheme and what's expected of you, and come talk to me if you need further study strategies. I am happy to brainstorm ideas to help you maximize your study strategies and improve your mathematical understanding.

- Cheating will result in a grade of zero for that homework, project, quiz or exam. Depending on the severity of the cheating, additional consequences may include failing the course.

- 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 on Canvas.