

## **COURSE INFORMATION:**

Math 1030, Introduction to Quantitative Reasoning, is a 3-credit semester course.

Math 1030-90 is an online section. There are no required class meeting times. Students will be provided with materials in Canvas including videos, notes, homework, quizzes and discussions. There are weekly deadlines. There are two proctored exams and one proctored final.

## **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. When entering 1030, you should already 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.

Going Forward: Math 1030 does not satisfy a Math 1050 or Math 1090 prerequisite.

*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.

## **REQUIRED COURSE MATERIALS**

For both quality learning and proctored testing, you are required to have access to the following equipment:

- **internet** (in order to access course materials and take exams);
- a **webcam on your computer or camera on your phone** (this is necessary for taking exams in Zoom; it is useful for online meetings);
- a **scanning device** (smartphones can be used as scanning devices) which is different than the device you are using for your camera;
- A four-function or scientific **calculator** (you can use a graphing calculator; you can not use a phone or computer ap when doing exams).

The following are recommended, but not required:

- a **microphone** (used for online meetings);
- a **printer** (if you don't have one, you will need to make hand-written templates).

Through the inclusive access program, you will have access to an e-book version of the course text, **Using & Understanding Mathematics, A Quantitative Reasoning Approach**, by Bennett and Briggs, Custom edition for University of Utah (taken from 6th edition) and the online homework site, **MyLab**. Inclusive Access is a program between the publisher and the UofU where the cost of your course materials is added to your tuition bill. This program reduces the cost of course materials for students because the purchase is made in bulk for all students in a course, rather than individually. The cost is \$58.85.

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 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 a full refund of the course materials cost will be sent to you during the first two weeks of class. However, you are then responsible for obtaining your own course material/textbook for that course. You could purchase the access directly from the publisher (Pearson), but the cost would be higher than through inclusive access. If you choose to purchase through any site other than the publisher, there is no guarantee that the access materials you get will work.

### **COURSE OBJECTIVES:**

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

1. Use Venn diagrams to examine relationships between sets and the validity of simple deductive arguments.
2. Use an appropriate sentence to describe both the absolute and percent change in a given quantity and interpret such statements about the change.
3. Use simple and compound units, making conversions when necessary, and develop accurate comparisons between units.
4. Evaluate the impact of compound interest on simple financial decisions.
5. 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 financial decisions.
6. Compare and illustrate the features of linear and exponential growth using practical examples.
7. 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.

### **INSTRUCTOR INFORMATION**

Instructor: Max Black

Pronouns: He/Him/His/They/Them/Their

What to call me: Max (the professor thing is weird because not a professor; this is because 'professor' is an actual position generally implying tenure and a Ph.D., of which I have neither)

Office when campus is open: JWB 121 (JWB is on President's circle, east of Kingsbury Hall) -

Email: [u1236813@utah.edu](mailto:u1236813@utah.edu). Due to technical difficulties I've had responding to emails sent through Canvas, do **NOT** send me messages through Canvas.

**COMMUNICATION:** You may contact me by e-mail. All announcements for the course will either be posted in quiz format on the Canvas website (these are graded) or under the announcements tab. **SUBSCRIBE** to Canvas announcements; if you do not, you **WILL** miss important information for the class. I will be very unforgiving when people miss announcements.

**ONLINE OFFICE HOURS:** There will be two official online office hours each week. No appointment is necessary to come to office hours. However, they are question driven. So, come with questions!

- Mondays from 12:00 PM-1:00 PM
- Wednesdays from 12:00 PM-1:00 PM

Online office hours will be held through Zoom. A link will be posted in the Canvas announcements tab. You can connect by internet or by phone. If nobody attends office hours meaningfully for multiple weeks, I will stop holding them. However, you will always be able to schedule appointments with me.

**ADDITIONAL ONLINE MEETINGS:** If the times above are not convenient for you, contact me about setting up an online meeting or office hour at an alternative time. If, for some reason, you feel *very strongly* that we meet in person, this is a possibility but is **by no means** required, nor is it even encouraged. If campus reopens, I can absolutely meet in-person; I will make an announcement, should this happen.

#### **RESOURCES TO HELP YOU:**

Contacting me by my e-mail, coming to online 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.

#### **CANVAS DISCUSSION BOARDS**

- Please post questions and answers. Your classmates are often the faster and most knowledgeable people to respond! If something is urgent, send me an e-mail too.

#### **TUTORING HELP**

- **UofU Math Tutoring Center ("drop-in" online tutoring).** The math center offers online tutoring. You can find more information here: <https://utah.instructure.com/courses/613503/>
- **UofU Learning Center (formerly ASUU Tutoring; offers subsidized one-on-one tutoring)** The Learning Center offers three free tutoring sessions per student per semester. Additional hours can be purchased after that. Scholarship assistance also available. Here is a link to more information: <https://learningcenter.utah.edu/> (Links to an external site.)

#### MyLab HELP

- Contact MyLab customer support (search the internet under "MyLab/Pearson customer support" for contact detail) if you have issues with the online platform. If MyLab/Pearson representatives are not able to assist, e-mail your instructor with a description of the problem and the case number.

#### EQUIPMENT HELP

- The UofU has a laptop and mobile hotspot loan program – laptops, mobile hotspots mailed to current U students on a first-come, first-served basis. You can find out more information about this through this link: <https://union.utah.edu/covid-19/> (Links to an external site.)

#### GENERAL HELP IN LIGHT OF COVID-19

Here is information from the University about logistics in light of COVID-19. There is also information about financial assistance, counselling, the food pantry, and much more. <https://coronavirus.utah.edu/#students> (Links to an external site.)

#### GENERAL HELP

I love the [KhanAcademy](#) (Links to an external site.) videos.

#### **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 6-9 hours of outside study/homework time. This means that our online course, will take the average student about 9-12 hours per week. (In the summer when we complete the semester in 12 weeks instead of 15, students should plan to spend about 11-14 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. Make sure you check your email on Wednesdays; these are the days I will send out emails to students you need to resubmit their quizzes.

### **IS ONLINE RIGHT FOR YOU?**

Most semesters, we recommend that students consider whether an online course will work for them by looking at [A: Online?](#) In Summer 2020, we know there are fewer choices, however it is still really important to think about whether you have the motivation and time to be successful in this course.

### **DATES:**

Weekly Due Dates (See late policy later in Syllabus):

- Online HW due each Tuesday at 11:59pm (grace period through 5am the next morning)
- Quiz due every Tuesday night at 11:59pm in Canvas (grace period through 5am the next morning)

Exams: Students are asked to fill out polls found in the Week 1 module to determine the exam times and dates. Exam dates will be set in Week 2 of the course.

- Exam 1: (Week 5) date will fall between Thursday 6/11 and Sat 6/13
- Exam 2: (Week 9) date will fall between Thursday 7/9 and Sat 7/11
- Project Due for Student Review: Tues, 7/16
- Student Feedback on Project Due: Fri, 7/18
- Project Due Date: Monday, 11/19
- Final Exam: (Week 12) date will fall between Thursday 7/30 and Sat 8/1

Other dates:

- Drop/audit date: Wed 5/20
- Withdraw date: Fri 6/19

### **GRADING:**

Grades are calculated as follows: Announcements (2%), Quizzes (10%, lowest 3 quizzes dropped), Homework (10%, lowest 3 assignments dropped), Project (18%), Midterms (30%) and Final (30%). A score of 73% is required for a C, and 55% is required to earn a D- (which is the lowest grade that the U of U considers as "passing" for credit). You should monitor your course grade throughout the semester by looking at "Grades" in Canvas. At the end of the semester, the "current grade", not the "final grade" is used to determine the course letter grade.

The grade scale is:

<b>A: 93% - 100%</b>	<b>C: 73% – 76.9%</b>
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<b>A-: 90% - 92.9%</b>	<b>C-: 70% – 72.9%</b>
<b>B+: 87% - 89.9%</b>	<b>D+: 65% – 69.9%</b>
<b>B: 83% - 86.9%</b>	<b>D: 60% – 64.9%</b>
<b>B-: 80% - 82.9%</b>	<b>D-: 55% - 59.9%</b>
<b>C+: 77% – 79.9%</b>	<b>E: below 55%</b>

## THE STRUCTURE OF THE 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 can not 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 breakdown of the components in the course and what they are worth.

- **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.
- **Reading from your text book.**
- **Watching the video lectures.** These were produced by the UofU math department. They are available in Canvas or on the math department website. If you find a video isn't addressing your questions, ask your instructor for additional resources.
- **Online Homework:** Working through problems helps you understand and master the material. Completing homework is worth 10% of the grade. The lowest three assignment scores are dropped at the end of the semester.
- **Weekly "On-Paper" Quizzes:** There will be quizzes weekly, except for exam weeks. You can access them on Friday (earlier by special arrangement) and they are due Tuesday nights. You will either need to print your quiz, or make a handwritten version of the quiz. (If handwriting, you need to have as many pages as the template and have the same questions in the same places on the same pages. You don't need to copy the questions/words.) You are responsible for submitting the assignment with the correct format and correct file extension. If you submit with the wrong format, there will either be a deduction (for small format issues) or you will be asked to

resubmit by Thursday (for large issues) and there will be a late penalty. The quizzes are worth 11% of your grade. There are 9 quizzes and the lowest two quiz scores will be dropped at the end of the term.

- **Project:** (WITH PEER REVIEW) This project is an in-depth 10-12 page paper in which you implement some of the mathematics of the course. The project is worth 18% of your grade. You will have the option to choose or be assigned a group; working individually is permissible with special request. You will submit a draft of the project, then there will be a three-day period for peer review (done individually, rather than in groups), then you may revise and resubmit. Both the draft and the peer review are parts of your project grade. If you do not submit your draft project on time, it will not be peer-reviewed (aka, you'll lose some major points). As for the final version, late projects are not accepted.
- **40% from Exams:** There will be two midterm exams. Exams will be given in Canvas and proctored through Zoom. A time and date will be set for each exam in the second week of classes, based on class polls. For the exams you will need a camera (web cam or phone cam) and a separate device for scanning. You are allowed to use a scientific or graphing calculator and one page of notes. You are not allowed to use any computer or online resources (including math sites and online calculators), notebooks or books, or to communicate about the exam with other humans. Not following these rules is considered academic misconduct and will be penalized as such. See further comments about academic misconduct below.
- **Final:** The final is comprehensive and worth 30% of your grade. The window to take the final exam is given above. Note that the window is only two-days (a Friday and Saturday), so you should schedule early to ensure you have a testing slot. If the testing window is not convenient, you can take it early (starting on the previous Saturday); contact me to make these arrangements, if applicable.
- **Extra Credit:** Extra credit, worth up to 3-6% of your course grade, can be earned for participating in online discussions (by asking or answering questions with significant mathematical content), by spotting errors in course materials, or by reflecting on your exams by e-mail or in person. See [A: Extra Credit](#) for details.

#### EARLY POLICY:

- You can start online HW early upon special request. Please request this at least 48 hours before you would like to access the HW.
- You have a 5-day window to complete quizzes. If you have 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 quiz.
- You can also 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.

#### COMMENTS ON THE LATE POLICY

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.

There may be situations that prevent you from turning in assignments on time. Hence, contacting me is CRUCIAL. I am usually willing to work something out. However, my general policy is that there is no late work. This is because I will begin grading the next day at 5:30 AM (when I wake up). Please note, however, **the three lowest homework assignments and the two lowest quiz scores are dropped at the end of the semester.**

#### **THE LATE POLICY FOR HW:**

You can request an automatic extension to complete HW late. There is a penalty of 30% on problems submitted late.

#### **QUIZZES:**

You should submit the quiz in the same Canvas assignment where you download it. Quizzes are due Tuesday nights, but there is a grace period through Wednesday 5:30 AM. There is no penalty for submitting before this time.

- If your quiz is on time, but you send the quiz to your instructor 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.

#### **LATE POLICY FOR EXAMS:**



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. There are no late exams. No exceptions.

### **EXTREME SITUATIONS (Case-by-Case Basis):**

If you have an extraordinarily severe situation, contact me, your instructor. We can discuss waiving penalties, granting longer extension periods for HW, excusing quizzes, extending exam dates, etc. Send documentation if possible; if not, still contact me to discuss alternatives. Everything is fixable and nothing is set in stone, but you NEED to contact me in advance.

### **GETTING A HARDBACK COPY OF THE TEXTBOOK**

If, in addition to the access you buy above, you also want to obtain a hardback copy of the textbook, here are some options for obtaining it:

- A.** 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.
- B.** Used and new copies of the book can be purchased through a variety of vendors, such as eBay, Amazon or similar websites.

### **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:

- Posting photos or comments that would be off-topic in a classroom are still off-topic in an online posting.
- Disrespectful language and photos are never appropriate.
- Using angry or abusive language is not acceptable, and will be dealt with according to the Student Code. The instructor may remove online postings that are inappropriate.
- Do not use ALL CAPS, except for titles. Please do not overuse punctuation marks such as exclamation points and question marks; your question is most likely not *that* important.
- Course e-mails, e-journals, and other online course communications are part of the classroom and as such, are University property and subject to the Student Code. Privacy regarding these communications between correspondents must not be assumed and should be mutually agreed upon in advance, in writing.

### **THE AMERICANS WITH DISABILITIES ACT**

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 the instructor 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>.

## **DIVERSITY STATEMENT**

It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any my meetings or entire due-date windows conflict with your religious events, please let me know so that we can make arrangements for you.

**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, 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. If you need any assistance or support, please reach out to the LGBT Resource Center.

[https://lgbt.utah.edu/campus/faculty\\_resources.php](https://lgbt.utah.edu/campus/faculty_resources.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, 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](http://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 (801585-2677). 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](http://safeu.utah.edu).

**UNDOCUMENTED STUDENT SUPPORT.** Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles to engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center. Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families. To learn more, please contact the Dream Center at 801.213.3697 or visit [dream.utah.edu](http://dream.utah.edu).

**STUDENT VETERANS.** If you are a student veteran, the U of Utah has a Veterans Support Center located in Room 161 in the Olpin Union Building. Hours: M---F 8---5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/>. Please also let me know if you need any additional support in this class for any reason.

**PLAGIARISM SOFTWARE POLICY.** I have elected to use a plagiarism detection service in this course, in which case you will be required to submit your paper to such a service as part of your assignment.

Disclaimer:

I reserve the right to make changes to the syllabus at will, with or without notice. However, I will do my best to notify all of you via announcements.