MEETING TIME AND LOCATION: M 6:16-9:15 pm at the Sandy site room 204
INSTRUCTOR: Sarah Jean Hoggan
OFFICE HOUR: before or after class by appointment
EMAIL: hoggan@math.utah.edu

EXAM DATES
Midterm 1: Monday, September 30
Midterm 2: Monday, November 18
Final Exam: Thursday, December 12 at 3:30 – 5:30 pm

COURSE: Math 1030-060 is a 3 credit hour math class. You can expect to spend at least two-three hours on homework per one hour of class time. That means you will need to spend an additional 6-9 hours of work weekly. Math 1030-070 meets Monday evenings from 6:15 pm – 9:15 pm at the Sandy Campus.

PREREQUISITE: Must have completed Math 980 or equivalent with a C or better, or have a current Math ACT score of 19 or higher, or an Accuplacer EA score of 60 or higher, or a Next Generation Accuplacer QAS score of 250 or higher (taken after January 30, 2019), or a Math SAT score of 500 or higher. An ACT/SAT or Accuplacer Exam score is acceptable if taken within the last 2 years.

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. Math 1030 does not satisfy a Math 1050 or math 1090 prerequisite.

A diagnostic test will be given during the first class.

FACULTY: Sarah Jean Hoggan, BS (mathematics), MEd (Phi Kappa Phi)
CONTACT ME: hoggan@math.utah.edu or email me in Canvas.

TUTORING: Free Math Lab in the basement of the Math Building (JWB) open M-H: 8 am – 8 pm and F: 8 am – 6 pm. or for paid tutoring visit the ASUU Tutoring Center in Rm. 330 SSB, 801-581-5153. Free e-tutoring can be accessed in Canvas on the left menu.

CONTENT OVERVIEW: This is a nontraditional math course. This course will look at your world from a new prospective. Its focus is to apply mathematics in your life.

COURSE DESCRIPTION: Quantitative information about change and growth through specific case studies are analyzed. Other topics covered include financial mathematics, linear and exponential growth, geometric measurements and scaling. This course is primarily for undergraduates who will not take any further mathematics except for statistics.

COURSE OBJECTIVES: This 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 10 section A. You are expected to read each section.

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

Students will complete weekly quizzes, participate in a group project, and pass the two mid-terms and final exam.

**TEACHING and LEARNING METHODS:** Lecture, PowerPoint slides, homework, quizzes and a group project. Video lectures are available through the Department of Mathematics. [http://www.math.utah.edu/lectures/math1030.html](http://www.math.utah.edu/lectures/math1030.html)

**HOMEWORK:** Weekly homework will be assigned. It is highly recommended that you work the problems assigned at the end of each section. The textbook homework in not graded.

**QUIZZES:** There will be approximately seven quizzes given in class. Quizzes will be given at the end of class. No makeup or late quizzes will be accepted; therefore, the four highest quiz scores will be used when computing your grade. Quizzes are worth 25 points each.

**EVALUATION:** The four highest quizzes, a group project, two midterms and a final exam will be used to determine your grade.

**PROJECTS:** A group project will be assigned. It is worth 100 points. The project is due at the beginning of class, November 11. The projects can be found in Canvas. Print a copy of your
The document contains some websites that may be helpful.

**EXAMS:** Two midterms and a final will be given. The Midterms will be taken September 30 and November 18. No makeup exams will be given! Arrangements must be made in **ADVANCE**.

**GRADING:** Quizzes count 20% of your grade. The group project counts 20%. The midterms are worth 15% each and the final is worth 30%. Grades will be given according to the following schedule:

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<td>90-92</td>
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A. The least expensive option for the book is to buy it through the **Inclusive Access Program**. An email will go out to math 1030 students prior to the first day of class with information on what Inclusive Access is and instructions on how to access their digital course materials. If you, the student, decides 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 their 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, they can talk to the 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](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.

**CALCULATORS:** A basic scientific (non-graphing) calculator is required. Bring one each class. No phones will be allowed on quizzes or exams.

**COURSE OUTLINE:** The homework and test schedule are on a separate page.
- Ch 1CD Thinking Critically
- Ch 2AB Approaches to Problem Solving
- Ch 3ABC Numbers in the Real World
- Ch 4ABCD Financial Management
- Ch 8ABC Exponential Astonishment
- Ch 9ABC Modeling Our World
- Ch 10A Fundamentals of Geometry

**IMPORTANT DATES:**

- last day to add without a permission code – Friday, August 23rd
- last day to add, drop (delete), elect CR/NC, or audit classes – Friday, August 30th
- last day to withdraw from classes – Friday, October 18th

All important dates can be seen at: http://registrar.utah.edu/academic-calendars/fall2019.php

**ADA:** “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 Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.” The 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.

**CLASSROOM ETIQUETTE:** Dress - The educational process is facilitated by professional behavior on the part of all; therefore, students are encouraged to dress appropriately for class.

**Turn cell phones off/vibrate during class!** DO NOT go outside in the middle of class to make or answer a phone call unless it is a true emergency. DO NOT TEXT MESSAGE during class! During a quiz or exam, if your cellphone rings/vibrates points will be deducted! Do not talk while I am lecturing or while other students are asking questions. DO NOT come to class late or leave early. It is not only inconsiderate, but also quite disruptive to other students.

**FACULTY RESPONSIBILITIES:** “All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. Students 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, plagiarism, and/or collusion, as well as fraud, theft, etc. Students should read the Code carefully
and know they are responsible for the content.”

**UNIVERSITY 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.

**CRISIS SERVICES CENTER:** This center offers services Mo-Fr 8 am – 5 pm. If you would like to talk to one of the staff members, please call 801-581-6826 or walk into the Center at 426 Student Services Building (SSB). For more urgent situations and after hours, please go to the University Neuropsychiatric Institute (UNI), 501 Chipeta Way, or go to the Emergency Department at the University Hospital.

**UNI CRISIS LINE:** 801-587-3000 offers crisis response 24/7, including: crisis support over the phone, a mobile outreach option (MCOT) that will respond to persons in their home, and the Receiving Center where individuals from Salt Lake County can access a safe and supportive environment to help individuals work through their crisis situation. Individuals may spend up to 23 hours at the Receiving Center, at no cost.

**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.