MATHEMATICS 1030 – Section 7
Introduction to Quantitative Reasoning (3 credits)
10:45 am– 11:35 am MWF ST 104


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 the student decides they don’t want the instant access to the course materials they 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 they OPT OUT during the first two weeks of class they will receive a full refund of the course material cost. They 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 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:
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: Aleksandra Jovanovic-Hacon; office JWB 204
e-mail address: ahacon@math.utah.edu

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

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

Office hours: Monday: 8:40 am - 9:30 am
Wednesday: 8:40 am – 9:30 am
Friday: 11:45 am – 12:45 pm

Prerequisites: 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 requires/suggests that you invest 2-3 hours of additional work (every week). For this 3 credit hour class, it means that 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 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 not be collected, but I strongly recommend that you do these problems.

**Quizzes:** Approximately every 2 weeks there will be a quiz covering the material that we have done. The problems will be very similar to the text or 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.

**Project:** You will have 1 project to turn in. The project will be due the 12th week of class, Monday - April 2nd, 2018 (due at the beginning of lecture). Project topics will be posted on Canvas approximately 8 weeks before the project is due, and you will work in groups of about 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 not accepted.

**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 family crisis that will prevent you from attending. Except under extremely unusual circumstances, you must inform me in advance of the missed test. You are expected to promptly make arrangements with me to make up the test.

The first exam is scheduled for February 26th (Monday) and the second exam is scheduled for April 9th (Monday). Please plan ahead of time.

**Final Exam** (comprehensive/departmental): **May 2nd (Wednesday)**
3:30-5:30 pm

This date and time is assigned by the University of Utah scheduling office. You can view the Spring 2018 final exam schedule at (math 1030 is listed under the departmental finals): [http://registrar.utah.edu/academic-calendars/final-exams-spring.php](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 during the last few weeks of the semester.

Students are not allowed to take early/late departmental final exam. Please do not schedule your trip before this date, or do not ask me to give you extra time to study.
Grading policy: Your grade will be based on:
Quizzes (4 best) 20%
Group Project 20%
Exams (2) 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:

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93% - 100%</td>
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<tr>
<td>A-</td>
<td>90% - 92.9%</td>
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<tr>
<td>B+</td>
<td>87% - 89.9%</td>
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<tr>
<td>B</td>
<td>83% - 86.9%</td>
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<td>B-</td>
<td>80% - 82.9%</td>
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<td>C</td>
<td>77% – 79.9%</td>
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<td>C-</td>
<td>73% – 76.9%</td>
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<td>D+</td>
<td>65% – 69.9%</td>
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<tr>
<td>D</td>
<td>60% – 64.9%</td>
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<td>D-</td>
<td>55% - 59.9%</td>
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<td>E</td>
<td>below 55%</td>
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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.

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.

Important Dates:
- last day to add without a permission code – Friday, January 12th,
- last day to add, drop (delete), elect CR/NC, or audit classes – Friday, January 19th
- last day to withdraw from classes – Friday, March 2nd

All important dates can be seen at: http://registrar.utah.edu/academic-calendars/spring2018.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. The tutoring center will open the second week of classes.

Classroom Etiquette: Please turn off your cells phones while you are in class. During lectures, if your cell phone rings or you are texting, you will be asked to leave. During the exam/quiz if your cell phone rings/vibrates points will be deducted.