

# COURSE # MAT 1030

## Quantitative Reasoning

2019-2020 Year

### Instructor

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### Course

#### Course Description

***This is a Concurrent Enrollment Course, offering both high school credit through Springville High School and college credit through Utah Valley University. Credit from this course is transferable to all colleges and universities. Contact the receiving institution for how the credits will be applied.***

#### Catalog Description

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. May be delivered online.

#### Course Prerequisites

This class is available to all high school students in good academic standing. High school prerequisites apply.

- Complete Secondary Math 1, 2 and 3 courses with a C average each year.
- Students who complete Secondary math 1, 2 and 3 courses but did not earn a C average in all three courses, may be allowed to enroll based on a qualifying placement test score. Accepted placement tests include: ACT, ACT-R, ACCUPLACER or ALEKS.
- MATH 1030 requires an ACT or ACT-R math score of 23+.
- MATH 1030 requires an ACCUPLACER College Level Math score of  $\geq 60$ .
- MATH 1030 requires an ALEKS score of  $\geq 46-60$

#### Course Objectives or Learning Outcomes

This capstone math course is designed to present mathematical thinking as a tool for solving everyday problems. Emphasis is placed on authentic contexts, which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. It is intended to

prepare students as consumers and as members of society to think critically about quantitative statements and to recognize when these statements are misleading or false. Upon completion of this course, students should be able to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions.

## Required Text and Materials

### Textbook:

*Using and Understanding Mathematics, A Quantitative Reasoning Approach*  
Jeffery Bennett and William Briggs  
Sixth Edition

### Calculators:

Each instructor has the right to set their own policy on calculators in MAT 1030 in regards to homework assignments, quizzes, chapter tests and special projects.

## Department Policies

### Assessment

#### Assignments

Homework may be collected in class at any time after the material has been covered. Homework turned in at any other time will be considered late. Late work will receive half credit. Instructors may assign various projects throughout semester.

#### Quizzes

Quizzes can be announced or unannounced and are part of your Homework/Quizzes grade.

#### Midterm/Final

Midterm is optional. The final is written by the instructor. There will be one common question provided by the department for assessment purposes. It is up to the instructor to assign a portion of the grade to that question.

#### Learning Strategist

The Learning Strategist offers learning assistance to students who are having problems with test taking, concentration, attendance, and all types of study skills. You may contact Pat Nelson, the Learning Strategist, in LA 201k or at 863-7418.

#### Math Lab

The Math Lab, located in LA 201, is a free service to you. Tutors are available to give you one-on-one help with concepts, skills and applications. Videotaped lectures that correspond with your textbook are available to view in the lab, or they can be checked out from the UVU Library. The Math Lab also has Online Tutoring at [www.uvu.edu/mathlab/mlol](http://www.uvu.edu/mathlab/mlol).

Call 801-863-8310 for more details.

### Grading Scale

A = 100-93	B - = 82-80	D+ = 69-67
A - = 92-90	C+ = 79-77	D = 66-63
B+ = 89-87	C = 76-73	D - = 62-60
B = 86-83	C - = 72-70	F = 59-0

## Grades and Credit

Your grade for this class will become part of your permanent college transcript and will affect your GPA. A low grade in this course can affect college acceptance and scholarship eligibility.

Grades are determined by instructors, based upon measures determined by the instructor and department and may include: evaluation of responses, written exercises and examinations, performance exercises and examinations, classroom/laboratory contributions, mastery of pertinent skills, etc. The letter grade "A" is an exceptional grade indicating superior achievement; "B" is a grade indicating commendable mastery; "C" indicates satisfactory mastery and is considered an average grade; "D" indicates substandard progress and insufficient evidence of ability to succeed in sequential courses; "E" (failing) indicates inadequate mastery of pertinent skills or repeated absences from class; "UW" indicates unofficial withdrawal from class.

## University Policies

### Academic Integrity

Utah Valley University expects all students to maintain integrity and high standards of individual honesty in academic work, to obey the law, and to show respect for others. Students of this class are expected to support an environment of academic integrity, have the right to such an environment, and should avoid all aspects of academic dishonesty. Examples of academic dishonesty include plagiarizing, faking of data, sharing information during an exam, discussing an exam with another student who has not taken the exam, consulting reference material during an exam, submitting a written assignment which was authored by someone other than you, and/or cheating in any form.

In keeping with UVU policy, evidence of academic dishonesty may result in a failing grade in the course and disciplinary review by the college. Any student caught cheating will receive, at minimum, zero points on that particular assignment for the first offense. A second offense can result in failing the course and will entail being reported to Student Advising. Academic dishonesty includes, in part, using materials obtained from another student, published literature, and the Internet without proper acknowledgment of the source. Additional information on this topic is published in the student handbook and is available on the UVU website.

### Student Code of Conduct

All UVU students are expected to conduct themselves in an appropriate manner acceptable at an institution of higher learning. All students are expected to **obey the law**, to **perform contracted obligations**, to **maintain absolute integrity and high standards** of individual honesty in academic work, and to observe a **high standard of conduct for the academic environment**.

The Student Rights and Responsibilities Code, or Code of Conduct, outlines for students what they can expect from the University and what the University expects of them.

Students should review their Rights and Responsibilities. The Code of Conduct also outlines the process for academic appeals, and appeals related to misconduct and sanctions. It can be found at <http://www.uvu.edu/studentconduct/students/>

### Student Responsibilities

You are expected to take an active role in the learning process by meeting course requirements as specified in written syllabi. Faculty members have the right to establish classroom standards of behavior and attendance requirements. You are expected to meet these requirements and make

contact with faculty members when unable to do so.

### Withdrawal Policy

If you do not wish to take this course or find that you are unable to continue, you should officially withdraw by the deadline stated in the current semester UVU Student Timetable.

You can officially withdraw from a course by dropping it through the online registration system or the campus One Stop desk (BA 106) by the listed date. If you officially withdraw from a course by the "Last Day to Drop and Not Show on Transcript," the course will not appear on your academic transcripts. If you officially withdraw from a course by the "Last Day to Withdraw," a "W" will appear on your transcripts. Although your GPA will not be affected — a "W" will indicate that you chose to withdraw. If you fail to complete the course and do not drop it before the "Last Day to Withdraw," a "UW" or "E" (a failing grade) will appear on your transcripts.

Withdrawing from a course may impact your financial aid status. For more information, see: UVU Financial Aid.

### Cheating and Plagiarism Policy Procedures

This document was taken from the Utah Valley University Policy 541, The Student Rights and Responsibilities Code

5.4.4 Each student is expected to maintain academic ethics and honesty in all its forms, including, but not limited to, cheating and plagiarism as defined hereafter:

1) Cheating is the act of using or attempting to use or providing others with unauthorized information, materials, or study aids in academic work. Cheating includes, but is not limited to, passing examination answers to or taking examinations for someone else, or preparing or copying another's academic work.

2) Plagiarism is the act of appropriating another person's or group's ideas or work (written, computerized, artistic, etc.) or portions thereof and passing them off as the product of one's own work in any academic exercise or activity.

3) Fabrication is the use of invented information or the falsification of research or other findings. Examples include but are not limited to:

- a) Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials.
- b) Listing sources in a bibliography not used in the academic exercise.
- c) Submission in a paper, thesis, lab report, or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.
- d) Submitting as your own any academic exercise (written work, printing, sculpture, etc.) prepared totally or in part by another.

### Students with Disabilities

**Students who need accommodations because of a disability** may contact the UVU Office of Accessibility Services (OAS), located on the Orem Campus in LC 312. To schedule an appointment or to speak with a counselor, call the OAS office at 801-863-8747. Deaf/Hard of Hearing individuals, email [nicole.hemmingsen@uvu.edu](mailto:nicole.hemmingsen@uvu.edu) or text 385-208-2677.

## Religious Accommodations

At the beginning of each semester, you shall promptly review the course syllabus and class schedule and notify faculty to request an accommodation for sincerely held religious beliefs and practices using the *Religious Accommodation Request Form*.

## Dangerous Behavior

The faculty member has the right to demand and secure the immediate removal of any person from the classroom whenever the faculty member determines, to the best of his or her knowledge or belief, that the person's actions are threatening or dangerous to students or themselves. If the faculty member cannot resolve a disruptive situation, the faculty member may request that the disruptive person(s) leave the classroom. If the disruptive person(s) will not leave voluntarily, the faculty member may call University Police for assistance. The incident shall be reported to the Dean of Students and to the Director of Judicial Affairs in accordance with Policy 541 *Student Rights and Responsibilities Code*.

## Discriminatory, Exclusionary, or Disruptive Behavior

Faculty members observing discriminatory, exclusionary, or disruptive behavior follow procedures described in UVU Policy 541 *Student Rights and Responsibilities Code*. 5.6

## Attendance

Attendance in this class is not mandatory due to the different learning preferences with each student. However, class will be held according to the schedule on the top of this syllabus. Chapters will be covered in class as listed in the semester schedule below. Class will consist of chapter reviews, discussion and group activities.

## Policies/References

1. Policy 541: Student Rights and Responsibilities Code  
<https://www.uvu.edu/catalog/current/policies-requirements/student-rights-and-responsibilities.html>
2. Policy 601: Classroom Instruction and Management.  
<https://policy.uvu.edu/getDisplayFile/5750ed2697e4c89872d95664>
3. Policy 635: Faculty Rights and Professional Responsibilities.  
<https://policy.uvu.edu/getDisplayFile/563a40bc65db23201153c27d>

## Definitions

- A. Syllabus: An agreement between faculty and students that communicates course structure, schedule, student expectations, expected course outcomes, and methods of assessment to students.

## Dropping the Class

October 18 is the last day to drop the course without it showing on your transcript.

January 14 is the last day to withdraw from the class.

If you drop the high school class, you must also withdraw from the UVU class to avoid receiving a failing grade.

**Due dates and this syllabus may change at the instructor's discretion due to the needs of the class members.**

# Springville High School Policies

## Exams

There will be two exams and a comprehensive final each term. No retakes will be allowed. There will be comprehensive course final given at the end of the year. If you maintain an 80% average on your homework, you will be able to replace a low exam score with your final exam score.

## Grades

You will receive a high school grade each term and final college grade for this course. Grades will be based on the following:

### SHS Term Grades

10% Attendance  
30% Homework and Quizzes  
10% Projects and Papers  
50% Exams

### UVU Final Grade

20% Term 1  
20% Term 2  
20% Term 3  
20% Term 4  
20% Final

## Groups

There will be a strong emphasis on group work in this class.

## Classroom Expectations

Cell phones on silent. Treat each other with respect.