

NOTE: This syllabus refers to documents of the form "A:...". These are informational quizzes in the Canvas site for the course. If you do not have Canvas access, please request a copy by e-mail.

MATH 1060-90, Spring 2020 SYLLABUS

INSTRUCTOR INFORMATION

Instructor: Rebecca Noonan Heale
Pronouns: she/her/hers
What to call me: Rebecca
Office: JWB 213(JWB is on President's circle, east of Kingsbury Hall)
Email: rebecca@math.utah.edu

COMMUNICATION: You may contact me by e-mail or through Canvas-mail. All announcements for the course will either be posted in quiz format on the Canvas website (these are graded) or sent by Canvas-mail.

OFFICE HOURS: There will be in-person office hours once each week. No appointment is necessary to come to office hours. You can also schedule appointments for other meetings at other times.

- **Mondays 10-11 am** in JWB 213
- **Fridays 2-3 pm** in JWB 213

ONLINE OFFICE HOURS:

- **Mondays** from 7:00 - 7:45 pm. Online office hours will be held for the first three weeks in the semester.

If at least one student is attending online office hours, they will continue on Thursdays after this; if no students are not attending, then online office hours will switch to being held when there is interest. I will send out an e-mail one day before the office hour to find out if there is interest. If there is, I will hold the online office hour.

Participating in one of these is similar to making a Skype call while watching a math video. To attend, go to conferences in Canvas. You need speakers. If you have a microphone, you can ask questions; if not you can type them.

ALTERNATIVE MEETINGS: If the times above are not convenient for you, contact me about setting up a meeting or office hour at an alternative time.

COURSE INFORMATION:

Math 1060, Trigonometry is a 3-credit semester course.

PREREQUISITES:

Prerequisites: "C" or better in MATH 1050 OR Accuplacer CLM score of 80 or higher.

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.

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. 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. In between announcement, I will send updates and reminders by e-mail in Canvas. You should check your Canvas mail approximately every 2-3 days, including late Wednesday or early Thursday (when I will send out e-mails if students need to resubmit quizzes.)

IS ONLINE RIGHT FOR YOU?

Before committing to this course, consider whether the online format matches your learning style. To aid in this, please look at: [A: Online?](#)

DATES:

Weekly Due Dates (see late policy later in syllabus):

- Online HW due each Tuesday at 11:59pm
- Quiz every Tuesday night in Canvas at 11:59pm
- Small group discussions - time to be determined by the small group

Exams (Exams should be taken at the testing center or with proctors; schedule at a time between the dates below):

- Exam 1: (first half of this class's Week 6) Wed 2/12 – Sat 2/15
- Exam 2: (first half of this class's Week 12) Wed 4/1 – Sat 4/4
- Final: there are two options:
 - Alternative Final: Thursday, 4/23 - Saturday 2/25
 - Common Final: Tuesday, 4/28, 1:00-3:00 pm, location TBA

Other dates:

- Drop date: Fri, 1/17
- Withdraw/audit date: Fri, 3/6

GRADING: Grades are calculated as follows:

- Announcement Quizzes (2%),
- Content Quizzes (11%),
- Small Group Discussions (4%)
- Online Homework (13%),
- Midterms (40%)
- and Final (30%).

The lowest 4 discussion scores, 3 homework scores and 2 quiz scores will be dropped at the end of the term.

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 grading scale is:

A	93% - 100%	C+	77% - 79.9%	D-	50% - 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+	66% - 69.9%		
B-	80% - 82.9%	D	60% - 65.9%		

COURSE MATERIALS:

COURSE WEBSITE:

Canvas <https://utah.instructure.com/> Since you are taking this quiz, you have found this site. It is a good idea to save this address, so that you can get to Canvas without going through CIS. Usually once or twice a term, CIS goes down, so the alternative access is useful.

TEXT:

The course uses OER Math 1060 – Trigonometry, 1st Edition (Created Fall 2017 by Salt Lake Community College and the University of Utah). You can access the text for free in Canvas.

ONLINE HOMEWORK:

The homework can be accessed in Canvas. It is free.

RECORDED LECTURE VIDEOS:

They are available through the modules or in both streamable and downloadable versions at <http://www.math.utah.edu/lectures/math1060New.html>Links to an external site.. (It's good to save this address somewhere else, in case Canvas is down)

TECHNOLOGY:

The majority of the course work can be done without a calculator. **No calculators will be allowed on exams nor the final.** Calculators will be useful on some homework assignments and may be allowed on portions of quizzes. If you do not have a scientific or graphing a calculator, there are free calculator applications online.

COURSE GOAL: To improve quantitative reasoning and prepare for future math learning in calculus, linear algebra, and discrete mathematics.

EXPECTED LEARNING OUTCOMES:

1. Upon successful completion of this course, a student should be able to:
 1. Understand trigonometric function definitions in the context of the right triangles and on the unit circle.
 2. Graph basic trigonometric functions and those with basic transformations. Be able to write an equation given a graph. Identify amplitude, periods, phase shifts from graphic and algebraic representations of functions.
 3. Solve applications problems using principles in trigonometry.
 4. Represent and interpret "real world" contexts situations using radian trigonometric functions.
 5. Use trigonometric inverses correctly, understanding the domain/range restrictions.
 6. Verify trigonometric identities, using proper logic and use trigonometric identities to evaluate expressions.
 7. Solve trigonometric equations.
 8. Solve for all measurements in any triangle, using the Pythagorean Theorem, trigonometric functions, the Law of Sines, and Law of Cosines in a variety of contexts and applications.
 9. Be able to convert to and from rectangular and trigonometric-form coordinates (polar coordinates).
 10. Graph complex numbers in a plane, perform operations on such numbers and use DeMoivre's theorem to find roots and powers of complex numbers.
 11. Understand geometry and arithmetic operations with vectors and use vectors in application problems.
 12. Use parametric equations in application problems and be able to convert between parametric and non-parametric representation of functions.
 13. Understand and explain arithmetic with complex numbers using trigonometry.
 14. Recognize the formulas for parabolas, hyperbolas and ellipses (including circles). Be able to manipulate these basic conics to find foci, any asymptotes, and important points and to graph these conics. Use conics in real world context situation.

HELP:

Contacting me by my e-mail, coming into 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.

You can also get tutoring through the following:

- **Math Tutoring Center (drop-in tutoring, computer lab, group tutoring).** This is free to all students. It is in the underground passage between JWB and LCB, Room 155. See <http://www.math.utah.edu/ugrad/mathcenter.html> for hours.
- **Private Tutoring:** University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB 233.
- **Computer Lab:** also in the T. Benny Rushing Mathematics Student Center, Room 155C. See <http://www.math.utah.edu/ugrad/lab.html> [Links to an external site.](#)
- **ASUU Tutoring in the evenings at the Marriott Library.** See <https://tutoringcenter.utah.edu/tutoring-services.php> [Links to an external site.](#) for details.

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 U of U 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 13% of the grade. The lowest 3 assignment scores are dropped at the end of the semester.
- **Weekly Paper-Based Quizzes:** There will be quizzes weekly, except for exam weeks. Any exceptions will be communicated in the weekly announcements. You can access them on Friday (earlier by special arrangement) and they are due on Tuesdays. 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 12 quizzes and the lowest two quiz scores will be dropped at the end of the term.

- **Weekly Small Group Discussions:** Talking about mathematical ideas reinforces understanding. Students are expected to participate in small group discussions every week AFTER completing their quiz and BEFORE turning it in. You will be assigned a small group to work with in Canvas. Groups will change throughout the semester. You will need to coordinate a time when you can "meet" with the other group members through an online conference tool that your group chooses (for example Zoom, Google Hangouts, Canvas Conferences, Skype, etc.). Meetings should be about 30-40 minutes. Participation will be checked via a survey on the last page of the quiz. For each quiz, your discussion grade will be the same as the grade you get on the quiz you discuss. The discussions are worth 4% of your grade. There are 12 discussion opportunities and the lowest four scores will be dropped at the end of the term
- **Exams:** There will be two midterm exams. Each exam is worth 20% of your grade. You must schedule your exams and final through the "Schedule Exams" link on Canvas. Exams will be administered at the Uonline Exam Services testing center (in the Marriott Library), at satellite testing center in Sandy, or if you are out of area, with a proctor that you set up and register with Uonline. There will be practice material provided prior to each exam. You are not allowed to use notes, a calculator, textbook, or phones during the exam. More information about exams, including how to set up a proctor, can be found here: [A: Exams](#).
- **Common Final:** The final is comprehensive and worth 30% of your grade. All the students in Math 1060 at the University of Utah take the same common final at the same time, including online students. However, if you are an online student and unable to be at the common final due to the time or location, you are allowed to take an alternative final exam at the testing center or with a proctor at an earlier time. See the exact dates above.
- **Extra Credit:** Extra credit, worth 3-6% of your course grade, can be earned for participating in online discussions (by asking or answering questions with significant mathematical content), or by spotting errors in course materials. See [A: Extra Credit](#) for details.

EARLY POLICY:

- You can start homework early at any time.
- 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.

However, because things may happen that will prevent you from turning in assignments on time, this course provides multiple types of accommodations. First, the three lowest HW and two lowest quiz scores are dropped at the end of the semester. There are also late options, though these come with penalties.

THE LATE POLICY FOR HW:

We will be trying out the online HW systems "late-pass" system, which is a way of getting extensions on homework due dates. You can request an extension on homework and earn up to 70% credit on work turned in late. You have to request the extension before the original due date. More information will be given in the weekly announcements.

LATE POLICY FOR QUIZZES:

You should submit the quiz in the same Canvas assignment where you download it. If the due date is not before an exam week, you can submit the quiz up to 2-days late. It should send it by e-mail instead of being uploaded in Canvas.

- - - Quizzes are due Tuesday nights, but there is a grace period through Wednesday 5 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.
 - If your quiz is one day late, send it to your instructor by e-mail. There is a 20 point penalty on all quizzes that come in on Wednesday (grace period through Thursday 5 am.)
 - If your quiz is two days late, send it to your instructor by e-mail. There is a 30 point penalty on all quizzes that come in on Thursday (grace period through Friday 5 am.)
 - Quizzes will not be accepted after Friday, 5am.

If the due date of a quiz is directly before an exam week, no late quizzes are accepted after 5 am on Wednesday.

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.

EXTREME SITUATIONS

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 possible, still contact me to discuss alternatives.

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:

- Using angry or abusive language is called "flaming", is not acceptable, and will be dealt with according to the Student Code.
- Do not use ALL CAPS, except for titles, since it is the equivalent of shouting online, as is overuse of certain punctuation marks such as exclamation points !!!! and question marks ?????.

CENTER FOR DISABILITY & ACCESS

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>.

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). 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 correspondence, discussions, in office hours and on assignments, 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 UIDcard, 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.

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 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 (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.