

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, FALL 2019 SYLLABUS

INSTRUCTOR INFORMATION

Instructor: Andrew Watson

Pronouns: he/him/his

What to call me: Andrew

Office: LCB 315 (LCB is on President's Circle, northwest of the Park Building)

Email: awatson@math.utah.edu

COMMUNICATION: You may contact the instructor by e-mail or through Canvas-mail. When e-mailing your instructor, please include "1060" in the subject line. 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 twice each week. No appointment is necessary to come to office hours.

- **Tuesdays, 3:30 – 4:30 pm**
- **Fridays, 11:00 am – 12:00 pm**

I am also happy to schedule office hours by appointment.

ONLINE OFFICE HOURS:

- **Mondays, 7:00 – 8:00 pm.** Online office hours will be held on Monday, August 19, 26, (September 2 is a holiday) and September 9.

If at least one student is attending (and participating in) online office hours, they will continue Mondays at 7 pm after this; if students are not attending, then online office hours will switch to be by appointment. Whether hours are continuing or by appointment will be announced in weekly announcements.

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 can use a microphone and speakers, dial in by phone, or do text chat.

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:

The prerequisite for this course is at least a C in mathematics 1050 or an Accuplacer CLM score of 80 or better.

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 hours of outside study/homework time. This means that our online course, will take the average student about 9 hours per week. Some students will be able to get by on less, and some students 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:

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

Exams and Project:

- Exam 1: (first half of this class's Week 6) Wed 9/25 -- Sat 9/28
- Exam 2: (first half of this class's Week 9) Wed 11/13 -- Sat 11/16
- Final: There are two options:
 - Alternative Final: Thurs 12/5 -- Sat 12/7
 - Common Final: Mon 12/9, 1:00 – 3:00 pm on the U of U campus (room TBA)

Other dates:

- Drop date: Fri, 8/30
- Withdraw/audit date: Fri, 10/18

GRADING: Grades are calculated as follows:

- Announcement Quizzes (2%),
- Weekly Quizzes (14%),
- Online Homework Assignments (14%),
- Midterms (40%)
- and Final (30%).

The lowest 5 online HW scores and the lowest 2 quiz scores will be dropped at the end of the term.

A score of 73% is required for a C, which is the prerequisite to take the next class. 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	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
93 – 100	90 – 93	87 – 90	83 – 87	80 – 83	77 – 80	73 – 77	70 – 73	66 – 70	60 – 66	50 – 60	0 – 50

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 Math1060 Trigonometry. You can access the text for free in Canvas.

ONLINE HOMEWORK:

The homework can be accessed in Canvas. It is also 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>. (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.

EXPECTED LEARNING OUTCOMES:

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> .
- **ASUU Tutoring in the evenings at the Marriott Library.** See <https://tutoringcenter.utah.edu/tutoring-services.php> 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 cannot 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, and as many times as it takes to get the score you want.
- **Reading** from your **textbook**.
- **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 14% of the grade. The lowest five assignment scores are dropped at the end of the semester.

- **Weekly Quizzes:** There will be take-home quizzes weekly, except during exam weeks. There is a quiz in the last week of class. 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, the first two times you will be warned and asked to resubmit in 24-hours. There will be no penalty the first time and a 10-point deduction (out of 100 points) the second time. After this, submissions with incorrect format will get a 0. The quizzes are worth 14% of your grade. The lowest two quiz 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](#).
- **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 can take an alternative final exam at the testing center or with a proctor at an earlier time. See the exact dates below.
- **Extra Credit:** Extra credit, worth up to 3-5% 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:

- HW is available at least 9 days before it is due. 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.

LATE POLICY FOR HOMEWORK AND QUIZZES:

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 five lowest HW and two lowest quiz scores are dropped at the end of the semester. Second, you may turn in quizzes late, but with a penalty.

- **HW:** Unfortunately, because of limitations with the homework website I can't allow for late homework submissions. Therefore, I am dropping the 5 lowest homework scores instead of the usual 3 to try to accommodate this. Extensions on HW will only be granted in exceptional circumstances (see the Extreme Situations section below).
- **Quizzes:** You should submit the quiz in the same Canvas assignment where you download it. But if you are late, you should send it by e-mail instead.
 - There is a 10-point penalty for sending it by e-mail before Wednesday, 5am. You get this penalty, even if you send it before the due time. This is because it is more time consuming to get into Gradescope when sent this way.
 - There is a 20-point penalty for submitting it between Wednesday 5am and Thursday 5am.

- There is a 30-point penalty for submitting it between Thursday 5am and Friday 5am.
- Quizzes will not be accepted after Friday, 5am.

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 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.

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.