

# Syllabus: Math 1080-4

## Fall 2020

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**Course Number and Title:** Math 1080-4

**Semester and Year:** Fall 2020

**Instructor:** Rebecca Noonan Heale (she/her/hers)

**Email:** [rebecca@math.utah.edu](mailto:rebecca@math.utah.edu)

**Office:** for Fall 2020 -- online by appointment

**Accessibility & Support:** For general questions about the course of mathematical content, please post in Canvas discussions. For individual questions, please message me in Canvas mail or e-mail. I do most of my correspondence in the early morning and will likely respond at that time; (I try to respond with 1 day). I'm also happy to talk before or after most classes. I will be also having two homework workshops every week (similar to office hours, but with an emphasis on doing HW at the same time.)

### **COURSE DESCRIPTION**

Math 1080, Precalculus, provides an accelerated review of college algebra and trigonometry. You can obtain the same prerequisite by taking Math 1080 as by taking Math 1050 followed by Math 1060. Currently, Math 1080 uses the same curriculum as Math 1050 and Math 1060 do. Any of these classes satisfy the University QA requirement. Math 1080 is targeted towards students who will take calculus. If Math 1050/1060/1080 is not required by your major or as a prerequisite, you are encouraged to investigate Math 1030 or Math 2000 to fulfill the requirement. Precalculus is a 5-credit class.

Math 1080 is an accelerated class, but has fewer contact hours than Math 1050 and Math 1060 combined. Because of this, about 60% of the topics will be presented synchronously and 40% asynchronously, through required videos and readings. According to university guidelines, an average student should expect to spend 15-21 hours per week outside of class in addition to the time in class. Some students will get by with less; other students may need more time.

**Prerequisite:** At least a B grade in Math1010 or Math1050 or Math1060 OR Math ACT score of at least 24 OR Math

SAT score of at least 560 OR Accuplacer CLM score of at least 65 (within the last two years).

**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.

**Future Courses:** Most students who take Math 1080 plan to go on to calculus. A grade of C in Math 1080 is a prerequisite for Calculus 1, Math 1210. You can obtain the same prerequisite by completing Math 1050 and Math 1060.

## COURSE DETAILS

- **Course Type:** IVC (Interactive video classes, also called synchronous online)
- **Location & Meeting Times:** The Class meets from 9:40-10:30 a.m. All classes will be held in Zoom. The link to the class will be posted in Canvas.
- **Attendance & Punctuality:** Students are expected to attend the synchronous online classes. (Classes will be recorded, but the class is designed with active participation in mind and students benefit most when present.) There will be a small check-in assignment due in class during the Monday, Tuesday, Wednesday, and Thursday classes. On Fridays, there will either be a quiz or an exam. You need to be present in the online class in Zoom to participate in these assessments. Not being present during an assessment, but turning it in will be considered academic misconduct. However, a certain number of check-ins and quizzes will be dropped in order to accommodate for illness and other absences (See Late/Absent policy later in the syllabus.)
- **Instructional Support Team:** *Information about an LA will be included later.*
  - Learning Assistants are undergraduate students who have taken this course previously, or a similar course, and who receive special training on how to help students learn science (see more details on the U of U Learning Assistant program page). LAs will help during class, in particular with discussions, to facilitate student learning. If you have questions during Zoom classes, you may send a message in the chat to the LA. They will also staff homework workshops. LAs can be thought of as peer mentors. They are not responsible for grading assignments.

The names and contacts of the LAs will be posted on the Canvas website on the Teaching Staff page. Please contact the LA DURING class or in homework workshops. For questions outside of these times, post in the discussions or e-mail your instructor.

- **Course Materials:**
  - **Textbook:** The course uses Math1050 College Algebra (2018) and Math 1060 Trigonometry, 1st Edition (2017). These texts were created by a Partnership Between Institutions in the Utah System of Higher Education. You can access the texts for free in Canvas.
  - **Additional course materials:**
    - The course website is in Canvas.
    - The course uses Online Homework through a system called iMathAs. This homework is free to students and can be accessed on Canvas.
    - The course will use online videos created for the Math 1050-90 and Math 1060-90 courses. They are available through the Canvas modules or in both streamable and downloadable versions at <http://www.math.utah.edu/lectures/math1050New.html>. and <http://www.math.utah.edu/lectures/math1060New.html>. There are video quizzes to be taken while watching the videos. These quizzes are available in Canvas.
    - We will use the online site, Gradescope, for grading and giving feedback no exams. There is a

link in Canvas to Gradescope. You may be asked to submit some assignments directly to Gradescope.

➤ **Technical requirements:**

- For both quality learning in an IVC setting and proctored testing, students are required to have access to the following equipment:
  - A strong internet connection with sufficient bandwidth (in order to participate in IVC classes, access course materials, and take exams) and a quiet a room as possible;
  - A webcam on your computer or camera on your phone (this is required for taking quizzes and exams in Zoom; it is recommended for IVC lecture classes);
  - A scanning device which is different than the device you are using for your webcam (smartphones can be used as scanning devices)
  - a microphone (used for online meetings);
- Students are expected to be computer literate and Canvas and zoom navigation skills are expected. Knowledge and navigation of canvas and zoom is critical to access all features and resources of this course.
- Students are expected to participate in the IVC portion of class, which is done through Zoom, with audio and visual enabled. This is expectation is there, because it improves learning and the classroom environment. If students need to turn of cameras and/or microphones, this is allowed. It is polite if you will be doing so for long periods to inform your instructor. Also note, even though microphones are enabled, they may be muted when not in use.
- During quizzes and exams, students are required to have audio and microphone and to have it enabled (students may be asked to mute your microphone for portions of the assessments.) Students need to position the camera and/or themselves so that their head, hands and workspace is visible. Students are required to have a separate scanning device and continue to have their Zoom camera turned on while scanning; during the scanning phase, students may be gone from the screen for a few seconds if this is prearranged with their instructor.
- A printer is recommended, but not required, so that you can print out templates for quizzes and exams ahead of time. If you do not have a printer, you will need to make and use hand-written versions. You must copy these exactly, but they are are designed to be fast and straight forward to create by hand.
- Calculators will be useful on some homework assignments, but will not be allowed on exams nor the final. If you do not have a scientific or graphing a calculator, there are free calculator applications online.

➤ **UofU Learning Support:**

- Math Center Online Tutoring, (Paid for by Your Student Fees)  
<https://www.math.utah.edu/undergrad/mathcenter.php>
- The Learning Center, 3 free tutoring sessions, \$5 after that, learning consultations  
<https://learningcenter.utah.edu/>
- Student Success Advocates <https://ssa.utah.edu/events.php>

➤ **General Help:**

- Here is information from the University about logistics in light of COVID-19. There is also information about financial assistance, counseling, the food pantry, and much more. <https://coronavirus.utah.edu/#students>

➤ **Equipment Help**

- The UofU has a laptop and mobile hotspot loan program – laptops, mobile hotspots mailed to current U students on a first-come, first-served basis. You can find out more information about this through this link: <https://union.utah.edu/covid-19/>
- For technical assistance, review the [Canvas Getting Started Guide for Students](https://community.canvaslms.com/docs/DOC-10701) <https://community.canvaslms.com/docs/DOC-10701> and/or contact TLT, Knowledge Commons, etc.

## CONTENT OVERVIEW

The course goal is for students to improve their quantitative reasoning, gaining an understanding of algebra and trigonometry which prepares them for calculus and other courses.

The instructor's goal is to provide a well-structured course in which each student is successful, enjoys the learning experience, and gains skill and confidence in logical reasoning.

## COURSE EXPECTED LEARNING OUTCOMES (ELOs)

| College Algebra ELOs   | Trigonometry ELOs   |
|--|---|
| <ol style="list-style-type: none"><li>1. Sketch the graph of quadratic and cubic polynomials, rational, radical, exponential, logarithmic, and piecewise functions with or without transformations. Be able to identify important points such as <math>x</math>- and <math>y</math>-intercepts, maximum or minimum values; domain and range; and any symmetry.</li><li>2. Given the graph of a function, be able to identify the domain, range, any asymptotes and/or symmetry, <math>x</math>- and <math>y</math>-intercepts, as well as find a rule for the function if it is obtained from a standard function through transformations.</li><li>3. Perform composition of functions and operations on functions</li><li>4. Find the inverse of a function algebraically and graphically.</li><li>5. For polynomial, rational exponential and logarithmic functions, identify the <math>x</math>-intercepts, asymptotes, end behavior and domain from algebraic and graphic representations. Convert back and forth between algebraic, graphical and verbal representations.</li><li>6. Solve polynomial, rational, exponential, and logarithmic equations and inequalities.</li><li>7. Define <math>i</math> as the square root of <math>-1</math> and know the complex arithmetic necessary for solving quadratic equations with complex roots.</li><li>8. Give an equation or verbal description for a conic given a graph of the conic; given an equation of a conic, recognize the conic and be able to graph it and describe its attributes.</li><li>9. Perform matrix arithmetic computations.</li><li>10. Solve systems of linear and non-linear equations in two or three variables, including the use of Gaussian elimination and matrix inverses in the linear case.</li><li>11. Understand sequences and be able to differentiate between geometric, arithmetic and others such as Fibonacci-type sequences, giving direct formulas where available or a numeric representation.</li><li>12. Understand series notation and know how to compute sums of finite arithmetic and finite and infinite geometric series.</li><li>13. Represent and interpret physical world situations using exponential and logarithmic functions.</li></ol> | <ol style="list-style-type: none"><li>14. Understand trigonometric function definitions in the context of the right triangles and on the unit circle.</li><li>15. 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.</li><li>16. Represent solve physical world problems using trigonometric functions.</li><li>17. Use trigonometric inverses correctly, understanding the domain/range restrictions.</li><li>18. Verify trigonometric identities, using proper logic and use trigonometric identities to evaluate expressions.</li><li>19. Solve trigonometric equations.</li><li>20. 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.</li><li>21. Be able to convert to and from rectangular and trigonometric-form coordinates (polar coordinates).</li><li>22. Graph complex numbers in a plane, perform operations on such numbers and interpret this graphically, and use DeMoivre's theorem to find roots and powers of complex numbers.</li><li>23. Understand geometry and arithmetic operations with vectors and use vectors in application problems.</li></ol> |

## **COURSE DESIGN**

Because Math 1080 covers so much content (over 50 sections of material), some topics will be presented in online lectures that will be delivered via Zoom video conferencing on canvas and other topics will be covered outside of class through online videos and selected readings. Students should refer to the Course Schedule to see what topic is being covered on what day.

For sections covered outside of class, students will be expected to watch videos produced by the UofU math department. Intermittently during the videos, they will be asked quiz questions. These questions help students reflect on important ideas and facts in the videos. Videos with quizzes are found in Canvas. The quizzes will be due at 11:59 pm the night before the material is needed in class, though students can work on them earlier as well. Guidance will be given for each video about prerequisite material would be important to understand before watching the video.

In general, on Mondays and Wednesdays, instructors will present new material. On Tuesdays and Thursdays, students will work on problems that reveal the nuances of material from both the lectures and the pre-recorded online videos. There will also be time for discussion and questions. Classes will be dynamic and there will be multiple ways for students to participate in each class, for example through polls and directed responses in the chat. There will be a short, graded "check-ins" (approximately 3 minutes) during each class. Access information will be given in Zoom and students will submit the assignment in Canvas.

Homework will be due on Tuesdays and Thursdays. Students are encouraged to start homework the day that material is covered in class, since working on HW nightly helps you identify things to ask about and be ready for the next day's class. There will sometimes only be a 2 to 3-day gap between when material is first covered and when homework is due. There are over 50 online homework assignments, each corresponding to a particular section. The HW problems are randomized meaning that each student will get a unique set of questions. Students are encouraged to work together when doing homework, but in such a way that they are learning the mathematics. There will also be a reflection HW assignment after each exam and a mastery assignment about trig functions.

On Fridays (or earlier on shorter weeks), there will either be a quiz or an exam during class time. There may also be a short amount of lecture time. All of this will be done via Zoom. Before class, students should print out or hand-copy template to write answers on. These will be made available in Canvas the day before the quiz/exam. During quizzes, students are required to have their cameras on. During exams, students are required to have their head, hands, and workspace be visible. Students may use one page of notes that they make during quizzes and exams. Each student should make their own notes. They should not use notes from other students or other sources. At the end of the quiz or exam, students will scan their work and upload it either to Canvas or Gradescope, the grading website. For exams, students should also scan and upload their page of notes. Student may ask questions of their instructor through the Chat feature in Zoom.

When taking quizzes, students will spend some time working independently and some time to working in an assigned group. The point of the group work time is for students to discuss the material and share ideas, because this type of interaction reinforces understanding. Students can compare answers as a way to check for errors and ask questions about specific steps, but they should not copy groupmates' solutions.

Feedback on quizzes and exams will be given through Gradescope. Students should look at this feedback after each assessment. After each exam, there will be a homework assignment to reflect on the exam experience and write about misunderstandings.

All Math 1080 students take a final exam at the same time, which is assigned by the university (see the date and time below.) The final exam will consist of three blocks with short breaks in between. It will be proctored in Zoom, similar to what was done for Exams. Block A will cover material not covered on previous exams. It is required. For Block B, you can choose to test on either the Exam 1 or Exam 2 material. If you do better on the final than you did previously, your score on the final will replace your score on that exam. For Block C, you may test on either the Exam 3 or Exam 4 material. If you do better on the final than you did previously, your score on that block of the final will replace your score

on that exam. You may also opt to not take Block B or Block C of the final exam if you are satisfied with previous test scores.

Students are encouraged to participate in the online discussions in Canvas to ask mathematical or logistical questions. This is also a good place to report errors in the course materials. You can earn up to 200 points (100 point = 1% of total course grade) for making posts about homework or class content which contain your mathematical thoughts. You can also earn up to 100 points for reporting errors, for example factual errors in announcements (the wrong date or time is given), mathematical errors in solutions or HW problems or grammatical errors which impede understanding.

## CLASS SCHEDULE & IMPORTANT DATES

**Exam Dates:** All exams are during class time, 9:40-10:30 am on Friday September 11, Friday October 2, Friday October 23, and Friday November 13. The final Exam is on Friday, December 11, 3:30-5:30 pm.

**Official Drop/Withdraw Dates:** The last day to drop classes is Friday, September 4; the last day to withdraw from this class is Friday, October 16. Please check the academic calendar for more information pertaining to dropping and withdrawing from a course. Withdrawing from a course and other matters of registration are the student's responsibility.

**Holidays:** *There will be no class on Monday, September 7 (Labor Day) and November 26-29 (Thanksgiving break).*

We will attach information about course pacing to the syllabus rather than including it in the syllabus.

## COMMUNICATION

- All course materials, such as lecture slides, assignments, solutions, grades, etc. will be posted on the Course Canvas site. Class announcements will be done via email through the Canvas server. You will be responsible for any information contained in them as well as the information announced in class.
- It is your responsibility to also regularly check your Umail (make sure you set up forwarding if you do not check it regularly), your Umail is the only way for me to communicate privately with you, there will be occasions during the semester that we may need to reach out to you individually (e.g. regarding a grade or assignment) and it is in your best interest to respond promptly.
- Feel free to contact me by email for questions at [rebecca@math.utah.edu](mailto:rebecca@math.utah.edu), I will do my best to answer emails promptly. I would like to encourage you to email me only if it is something personal that requires individual attention, if instead you have questions about logistics of the class, course material and assignments, and anything else your classmates may wonder as well, please post a question on the Discussions Board instead. This way the information is shared quickly to the entire class, and each of you can benefit from seeing other classmates' questions.
- I will always do my best to ensure the communication relevant to the course is clear and transparent, it is your responsibility as well to keep yourself updated by regularly checking: the announcements on Canvas, your Umail (or Canvas mail), the posts on the Discussions Board, and pay attention to the announcements given in class and Discussion Section.
- Course Canvas Page: Students are expected to log in and check canvas **every day** for posted announcements and assignments. Students are also strongly advised to set up notifications for canvas so they do not miss any important notifications.

## NETIQUETTE - EXPECTATIONS FOR ONLINE LEARNING ENVIRONMENT

- *Classroom equivalency: Respectful participation in all aspects of the course will make our time together productive and engaging. Zoom lectures, discussion threads, emails and canvas are all considered equivalent to classrooms and student behavior within those environments shall conform to the student code. Specifically:*
  - *Posting photos or comments that would be off-topic in a classroom are still off-topic in an online posting.*
  - *Disrespectful language and photos are never appropriate.*
  - *Using angry or abusive language is not acceptable, and will be dealt with according to the Student Code. The instructor may remove online postings that are inappropriate.*
  - *Do not use ALL CAPS, except for titles, or overuse certain punctuation marks such as exclamation points and question marks.*
  - *Course e-mails, e-journals, and other online course communications are part of the classroom and as such, are University property and subject to the Student Code. Privacy regarding these communications between correspondents must not be assumed and should be mutually agreed upon in advance, in writing.*
- *Other expectations for online communication (on Discussion Board, Emails, Zoom chat etc):*
  - *Emails: When emailing your Instructor and Teaching Team keep a professional tone (e.g. Use a descriptive subject line, avoid “Hey” and begin the e-mail with Dear Rebecca or Dear Dr. Noonan Heale. Sign your message with your name and return e-mail address. Please consult this page for tips on how to write appropriate professional emails: <https://academicpositions.com/career-advice/how-to-email-a-professor>*
  - *Treat your instructor, teaching team and classmates with respect in email or any other communication.*
  - *Avoid slang terms such as “wassup?” and texting abbreviations such as “u” instead of “you.”*
  - *Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and your message might be taken seriously or be offensive to others.*
  - *Be careful with personal information (both yours and others).*
- *Electronic or equipment failure: It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment failures will not be an acceptable excuse for late or absent assignments.*
- *Online submissions: You are responsible for submitting the assignment with the required naming convention, correct file extension, and using the software type and version required for the assignment.*
- *Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name. Additionally, students can indicate their pronouns in Zoom.*

## ASSIGNMENTS, ASSESSMENT & GRADING

### Grade Break Down

- |                       |               |  |
|-----------------------|---------------|--|
| ● Each Exam           | 5 x 12% = 60% | There are 5 exams, counting Block 1 of the Final exam  |
| ● Online and Other HW | 20%           | There are more than 50 HW assignments. Assignments can be completed late for 80% credit; the lowest 7 scores will be dropped at the end of the semester; |
| ● Quizzes             | 14%           | There are 11 quizzes. The lowest 2 scores will be dropped.   |
| ● Check-Ins           | 3%            | There will be about 56 check-ins. The lowest 14 scores will be dropped at the end of the semester.   |
| ● Video Quizzes       | 3%            | There are 28 video quizzes. The lowest 7 scores will be dropped at the end of the semester.  |

An additional 3% extra credit can be earned, either by spotting errors and/or by contributing posts with your mathematical thoughts on the discussion board in Canvas.

### Grading Scale//Regrading Policy:

A [93-100),  
A- [90-93),  
B+ [87-90),  
B [83-87),

B- [80-83),  
C+ [77-80),  
C [73-77),  
C- [70-73),

D+ [67-70),  
D [60-67),  
D- [50-60),  
E [0-50).

It is the student's responsibility to ensure the accuracy of all recorded homework, quizzes, online assignments, and exam grades. Also you should keep as record all your graded assignments. If you see any error in your grades on Canvas reach out to me as soon as possible. If you have questions or see an errors in Gradescope, for example if the feedback doesn't match the work you show, go to the problem and submit a regrade request. Please take action promptly, at the latest within two weeks from when the assignment was returned.

### Late Assignments/Missed Assignments Policy:

The following policies are built into the course in order to accommodate illness and other reasons for absence:

- Online HW can be submitted late for 80% credit, the lowest 7 homework scores will be dropped.
- the lowest 25% of the lowest video quiz scores will be dropped (7 quizzes).
- the lowest 25% of the Monday-Thursday check-in assignments will be dropped (14 assignments)
- 2 quizzes will be dropped
- On the final exam, you have the choice of retesting on the Exam 1 OR the Exam 2 material. If you score more highly on the final than you did on the exam, this will replace your original score. Similarly, you will have the choice on the final of retesting on the Exam 3 or Exam 4 material and having this replace your original score.

The course is designed to provide flexibility if you occasionally cannot turn work in on time. But in general, you are expected to turn things in on time and take quizzes and exams at the times given. If there are extenuating circumstances, please contact me in a timely way to discuss alternatives. If the situation is one that can be documented, you may be asked to provide documentation.

The University of Utah student code allows for making up quizzes or exams in advance for "officially sanctioned University Activities ..., or government obligations, or religious obligations". Please contact me at least one week in advance of any

### Incompletes:

According to university policy, to be considered for an incomplete, a student must have 20% or less of the course work remaining and be passing the course with a C or better. You must request an incomplete grade and I will consider giving that grade only under exceptional circumstances.

### ACADEMIC CODE OF CONDUCT

Students are encouraged to review the Student Code for the University of Utah: <https://regulations.utah.edu/academics/6-400.php>. In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating. A student who engages in academic misconduct as defined in Part I.B. may be subject to academic sanctions including but not limited to a grade reduction, failing grade, probation, suspension or dismissal from the program or the University, or revocation of the student's degree or certificate. Sanctions may also include community service, a written reprimand, and/or a written statement of misconduct that can be put into an appropriate record maintained for purposes of the profession or discipline for which the student is preparing.



## ADDITIONAL POLICIES AND RESOURCES

### Plagiarism and Academic Integrity

Academic integrity means that scholars, including students, conduct their work ethically. This includes taking credit only for work they themselves perform. Violations of academic integrity undermine the principle of fairness, devalue your degree, and leave you underprepared for applying what you have been taught. In this way, it defrauds you, your classmates, the university, and the people you will serve with your education after graduation. It includes cheating on tests and other assessments, collaborating on projects when not permitted to, presenting other people's work as yours (whether they agree to that), and more.

Plagiarism is a serious offense against academic integrity that could result in failure for the test or paper, failure for the course, and expulsion from the university. Plagiarism usually involves passing off the work, words, or ideas of others as your own without giving proper credit.

### Privacy Policy

FERPA, the federal law that guards student privacy, prohibits me from discussing your performance in this class with anyone except you without your permission, which must be on file with the university, not simply told to me.

To ensure compliance with this law, I will not respond to emails from students about their activities in a course unless they originate from university email addresses or are sent via Canvas mail.

Out of respect for the privacy of your classmates, do not record or screenshot any part of this class for use outside of this class, even if you omit identifying information about the speaker or poster. You may not circulate or share images, clips, or other course materials with individuals who are not enrolled in this class. Doing so is a serious violation of our class ethical code and will result in a charge of academic misconduct.

**Inclusivity Statement:** It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, and veteran status, and other unique identities. gender, sexuality, disability, age, socioeconomic status, ethnicity, race, culture, and other unique identities. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any of our class meetings conflict with your religious events, please let me know so that we can make arrangements for you.

**Discrimination and Harassment:** 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 Office of the Dean of Students, 270 Union Building, 801-581-7066. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS). Please see Student Bill of Rights, section E <http://regulations.utah.edu/academics/6-400.php>. I will listen and believe you if someone is threatening you.

**Names/Pronouns.** Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name. 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, which managed can be managed at any time). 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 or on assignments. Please advise me of any name or pronoun changes so I can help create a learning environment in which you, your name, and your pronoun are respected. If you need any assistance or support, please reach out to the LGBT Resource Center. [https://lgbt.utah.edu/campus/faculty\\_resources.php](https://lgbt.utah.edu/campus/faculty_resources.php)

**English Language Learners.** If you are an English language learner, please be aware of several resources on campus that will support you with your language and writing development. These resources include: the Writing Center (<http://writingcenter.utah.edu/>); the Writing Program (<http://writing-program.utah.edu/>); the English Language Institute (<http://continue.utah.edu/eli/>). Please let me know if there is any additional support you would like to discuss for this class.

**Undocumented Student Support.** Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles to engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center. Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families. To learn more, please contact the Dream Center at 801.213.3697 or visit [dream.utah.edu](http://dream.utah.edu).

**Veterans Center.** If you are a student veteran, the U of Utah has a Veterans Support Center located in Room 161 in the Olpin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/>. Please also let me know if you need any additional support in this class for any reason.

**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](http://www.wellness.utah.edu) or 801-581-7776.

**Student Success Advocates:** The mission of Student Success Advocates is to support students in making the most of their University of Utah experience ([ssa.utah.edu](http://ssa.utah.edu)). They can assist with mentoring, resources, etc. Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact a Student Success Advocate for support (<https://asu.utah.edu/displaced-students>).

**The Americans with Disabilities Act:**

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.

**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 on the basis of your sex, including sexual orientation or gender identity/expression, you are encouraged to report it to the University's Title IX Coordinator; Director, Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or to 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 police, contact the Department of Public Safety, 801-585-2677(COPS).

**Campus Safety:** 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](http://safeu.utah.edu)

**University Counseling Center** The University Counseling Center (UCC) provides developmental, preventive, and therapeutic services and programs that promote the intellectual, emotional, cultural, and social development of University of Utah students. They advocate a philosophy of acceptance, compassion, and support for those they serve, as well as for each other. They aspire to respect cultural, individual and role differences as they continually work toward creating a safe and affirming climate for individuals of all ages, cultures, ethnicities, genders, gender identities, languages, mental and physical abilities, national origins, races, religions, sexual orientations, sizes and socioeconomic statuses. More information about the counseling center, including ways to contact them, can be found here: <https://counselingcenter.utah.edu/>.

**Office of the Dean of Students** The Office of the Dean of Students is dedicated to being a resource to students through support, advocacy, involvement, and accountability. It serves as a support for students facing challenges to their success as students, and assists with the interpretation of University policy and regulations. Please consider reaching out to the Office of Dean of Students for any questions, issues and concerns. 200 South Central Campus Dr., Suite 270. Monday-Friday 8 am-5 pm. Their phone number is 801-582-7066.

**Syllabus subject to change:** This syllabus is meant to serve as an outline and guide for our course. Please note that I may modify it with reasonable notice to you. I may also modify the Course Schedule to accommodate the needs of our class. Any changes will be announced in class and posted on Canvas.



| Wk 4      |          |                       |                      |             |                                |                                |                              |                                |                            |   |
|-----------|----------|-----------------------|----------------------|-------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|----------------------------|---|
|           | Textbook | Video                 |                      |             | Sun                            | Mon                            | Tues                         | Wed                            | Thur                       | Fri   |
| Sections: | CA 2.6   | CA Video 11           | Polynomial Inequa    | Class       |                                |                                |                              |                                |                            |   |
|           | CA 3.1   | CA Video 12           | Intro to Rational Fu |             |                                | 3.1                            | 2.6, 3.1 & 3.2 Practice      | 3.4                            |                            | Quiz  |
|           | CA 3.2   | CA Video13            | Graphing Rational f  | After Class | Due: Video Quiz on CA Video 11 | Due: Video Quiz on CA Video 13 | Due 2.6                      | Due: Video Quiz on CA Video 14 | Due 3.1, 3.2               |   |
|           | CA 3.3   | CA Video 14           | Holes and Oblique    |             | Work on: HW 2.5, 2.6           | Work on: HW 2.5, 2.6, 3.1      | Work on: HW 3.1, 3.2         | Work on: HW 3.1, 3.2           | Work on: HW 3.3, 3.4       | Watch/Take: Video Quiz on CA Video 17 (28 min)  |
|           | CA 3.4   | CA Video 15AB         | Rational equations   |             |                                |                                |                              |                                |                            |   |
| Wk 5      |          |                       |                      |             |                                |                                |                              |                                |                            |   |
|           | Textbook | Video                 |                      |             | Sun                            | Mon                            | Tues                         | Wed                            | Thur                       | Fri   |
| Sections: | CA 4.1   | CA Video 16           | Into to Exponetials  | Class       |                                |                                |                              |                                |                            |   |
|           | CA 4.2   | CA Video 17           | Properties of Logar  |             |                                | 4.1                            | 4.1 & 4.2 Practice           | 4.3                            | 4.3 Practice               | Quiz  |
|           | CA 4.3   | CA Video 18           | Exponential Equati   | After Class | (Cover CA 4.4 next week)       | Due: Video Quiz on CA Video 17 | Due HW 3.3, 3.4              |                                | Due HW: 4.1, 4.2           |   |
|           |          |                       |                      |             | Work on: HW 3.3, 3.4           | Work on: HW 3.3, 3.4, 4.1      | Work on: HW 4.1 4.2, and 4.3 | Work on: HW 4.1 and 4.2        | Work on: HW 4.1 and 4.3    | Watch/Take: Video Quizzes on CA Video 21 (28 min)   |
|           |          |                       |                      |             |                                |                                |                              |                                |                            |   |
| Wk 6      |          |                       |                      |             |                                |                                |                              |                                |                            |   |
|           | Textbook | Video                 |                      |             | Sun                            | Mon                            | Tues                         | Wed                            | Thur                       | Fri   |
| Sections: | CA 4.5   | CA Video 21           | Applications of Exp  | Class       |                                |                                |                              |                                |                            |   |
|           | CA 4.4   | CA Video 19           | Logarithmic Equati   |             |                                |                                | 4.4                          | 4.4 and 4.5 Practice           | CA 5.1, 5.3                | Prepare for Exam  |
|           | CA 5.1   | (covered in Videos 26 | Conic Sections       | After Class |                                | Due: Video Quiz on CA Video 21 | Due HW 4.4, 4.5              |                                |                            |   |
|           | CA 5.2   | TRIG Video 26.5       | Circles              |             | Work on: HW 4.5                | Work on: HW 4.4, 4.5           | Work on: Practice for Exam   | Work on: Practice for Exam     | Work on: Practice for Exam | Watch/Take: Video Quizzes on TRIG Video 26.5 (14 min), TRIG Video 27AB (19 min, 18 min), CA Video 22 (19 min) |
|           | CA 5.3   | TRIG Video 26         | Parabolas            |             |                                |                                |                              |                                |                            |   |

| Wk 7        |   |                      |                      |             |  |                                |  |  |                            |  |
|-------------|---|----------------------|----------------------|-------------|--|--------------------------------|--|--|----------------------------|--|
|             | Textbook  | Video                |                      |             | Sun  | Mon                            | Tues                                   | Wed                                      | Thur                       | Fri  |
| Online Week |   |                      |                      |             |  |                                |  |  |                            |  |
| Sections:   | CA 5.4  | TRIG Video 27AB      | Ellipses             | Class       |  |                                |  |  |                            |  |
|             | CA 5.5  | TRIG Video 28        | Hyperbolas           |             |  |                                |  |  |                            |  |
|             | CA 6.1  | CA Video 21          | Systems of Linear a  |             |  | 5.5                            | Practice 5.1-5.5                       | 6.2                                      | Practice 6.1 & 6.2         |  |
|             | CA 6.2 3 by 3   | CA Video 22 3by3 Lin | Linear Equations     | After Class | Due: Video Quiz on TRIG Video 26.5 and TRIG Video 27AB |                                | Due: HW 5.2, 5.3 ,5.4                  | Due: Video Quiz on CA Video 22           | Due: HW 5.5                |  |
|             |   |                      |                      |             | Work on: HW 5.2, 5.3, 5.4                              | Work on: HW 5.2, 5.3, 5.4, 5.5 | Work on: HW 5.5                        | Work on: HW 5.5                          | Work on: HW 6.1, 6.2       | Watch/Take: Video Quizzes on CA Video 24AB (23 min, 9 min)                               |
| Wk8         |   |                      |                      |             |  |                                |  |  |                            |  |
|             | Textbook  | Video                |                      |             | Sun  | Mon                            | Tues                                   | Wed                                      | Thur                       | Fri  |
| Sections:   | CA 6.3  | CA Video 23          | Systems of Linear E  | Class       |  |                                |  |  |                            |  |
|             | CA 6.4  | CA Video 24AB        | Matrix Arithmetic    |             |  |                                | 6.3                                    | Practice 6.3 & 6.4                       | 6.5                        | Practice 6.5   |
|             | CA 6.5  | CA Video 25          | Systems of Linear E  | After Class | Due: Video Quiz on TRIG Video 24AB                     |                                | Due: HW 6.1, 6.2                       |  | Due: HW 6.3, 6.4           |  |
|             | (Skip CA 6.6 Systems of Linear Equations<br>(Skip CA 6.7 Partial Fraction Decomposition)) |                      |                      |             | Work on: HW 6.1, 6.2                                   | Work on: HW 6.1, 6.2, 6.3, 6.4 | Work on: HW 6.3, 6.4                   | Work on: HW 6.3, 6.4, 6.5                | Work on: HW 6.5            | Watch/Take: Video Quiz CA Video 28AB(23 min, 21 min) and Trig Video 1AB (28 min, 12 min) |
| Wk 9        |   |                      |                      |             |  |                                |  |  |                            |  |
|             | Textbook  | Video                |                      |             | Sun  | Mon                            | Tues                                   | Wed                                      | Thur                       | Fri  |
| Sections:   | CA 7.1  | CA Video 28AB        | Sequences            | Class       |  |                                |  |  |                            |  |
|             | CA 7.2  | CA Video 29AB        | Series               |             |  |                                | 7.2                                    | Practice 7.1 & 7.2                       | TRIG 2.1                   | Practice for Exam  |
|             | (Skip CA 7.3 Binomial Expansion)  |                      |                      | After Class | Due: Video Quiz on CA Video 28AB                       |                                | Due: HW 6.5,<br>Watch/Take: Video Quiz |  | Due: HW 7.1 & 7.2          |  |
|             | TRIG 1.1  | TRIG Video 1AB       | Degree Measures o    |             | Work on: HW 6.5,7.1, 7.2                               | Work on: HW 6.5, 7.1, 7.2      | Work on: HW 7.1, 7.2, Study for Exam   | Work on: HW 7.1, 7.2, Practice for Exam, | Work on: Practice for Exam | Watch/Take: Video Quiz for TRIG Quiz 3AB(24 min, 14 min) and Trig Video 8 (27 min)       |
|             | TRIG 1.1  |                      | Radian Measures o    |             |  |                                |  |  |                            |  |
|             | TRIG 2.1  | TRIG Video 2         | Right Triangle Trigr |             |  |                                |  |  |                            |  |
|             | (COVER TRIG 1.3 Later)  |                      |                      |             |  |                                |  |  |                            |  |

| Wk 10            |  |                |                               |             |                                   |   |                                      |  |                     |   |
|------------------|--|----------------|-------------------------------|-------------|-----------------------------------|---|--------------------------------------|--|---------------------|---|
|                  | Textbook   | Video          |                               |             | Sun                               | Mon                                     | Tues                                 | Wed                                      | Thur                | Fri   |
| Sections:        | TRIG 2.2   | TRIG Video 3AB | Unit Circle                   | Class       |                                   |   | Practice 1.1-1.2, 2.1, 2.2, 2.3, 2.5 |  |                     |   |
| (Cover TRIG 2.4) | TRIG 2.3   | TRIG Video 4   | Six Trig Functions            |             |                                   | 2.3, 2.5                                |                                      |  | 3.1-3.2             | Practice 3.1-3.4  |
|                  | (Cover TRIG 2.4 Verifying Trig Identities Next Week) |                |                               | After Class | Due: Video Quiz on TRIG Video 3AB |   | Due: HW 1.1- 1.2, 2.1, 2.2           | Due: Watch/Take: Video Quiz TRIG Video 8 | Due: HW 2.3, 2.5    |   |
|                  | TRIG 2.5   | TRIG Video 6   | Beyond the Unit Circle        |             |                                   |   |                                      |  |                     |   |
|                  | TRIG 3.1-3.2   | TRIG Video 7AB | Graphs of Sine and Cosine     |             |                                   |   |                                      |  |                     |   |
|                  | TRIG 3.3 - 3.4                                       | TRIG Video 8   | Graphing Other Trig Functions |             | Work On: HW 1.1-1.2, 2.1, 2.2,    | Work On: HW 1.1-1.2, 2.1, 2.2, 2.3, 2.5 | Work On: HW 2.3, 2.5                 | Work On: HW 2.3, 2.5, 3.1-3.2            | Work On: HW 3.1-3.4 | Watch/Take: TRIG quizzes for TRIG Video 9, Just Examples 1-3, and TRIG Video 5 (15 min), and TRIG Video 10 (25 min) |

  

| Wk 11     |                   |   |                           |             |  |                                     |                               |                     |                          |      |
|-----------|-------------------|---|---------------------------|-------------|--|-------------------------------------|-------------------------------|---------------------|--------------------------|------|
|           | Textbook          | Video                                       |                           |             | Sun  | Mon                                 | Tues                          | Wed                 | Thur                     | Fri  |
| Sections: | TRIG 1.3          | TRIG Video 9                                | Applications of Radicals  | Class       |  | 2.4                                 | Practice 1.3, 2.4, 4.1-4.2    | 4.3-4.5             | Practice 4.1 - 4.5       | Quiz |
|           | TRIG 2.4          | TRIG VIDEO 5                                | Trig Identities           |             |  |                                     |                               |                     |                          |      |
|           | TRIG 4.1-4.2      | TRIG VIDEO 10                               | Using Trig Identities     | After Class | Due: Video Quizzes on TRIG Video 9 and TRIG Video 10 | Due: Video Quizzes on TRIG Video 10 | Due: HW 1.3, 2.4              |                     | Due: HW 4.1-4.2, 4.3-4.5 |      |
|           | TRIG 4.3-4.5      | TRIG Video 11                               | Multiple Angle Identities |             |  | Work On: HW 1.3, 2.4                | Work On: HW 1.3, 2.4, 4.1-4.2 | Work On: HW 4.1-4.2 | Work On: HW 4.1-4.5      |      |
|           | (Nothing in Text) | TRIG Video 11.5 Review of Inverse Functions |                           |             |  |                                     |                               |                     |                          |      |

  

| Wk 12     |              |               |                        |             |                                  |                                  |                              |  |  |                            |
|-----------|--------------|---------------|------------------------|-------------|----------------------------------|----------------------------------|------------------------------|--|--|----------------------------|
|           | Textbook     | Video         |                        |             | Sun                              | Mon                              | Tues                         | Wed                                    | Thur                                   | Fri                        |
| Sections: | TRIG 5.1-5.3 | TRIG Video 12 | Inverse Trig Functions | Class       |                                  |                                  |                              |  |  |                            |
|           | TRIG 5.4-6.2 | TRIG Video 13 | Solving Trig Equations |             |                                  |                                  | 5.1-5.3                      | Practice 5.1 - 5.3, 5.4-6.2            | 6.3                                    | Practice For Exam          |
|           | TRIG 6.3     | TRIG Video 14 | Solving Trig Equations | After Class | Due: Video Quiz on TRIG Video 12 | Due: Video Quiz on TRIG Video 13 | Due 5.1, 5.2-5.3             |  | Due HW 5.4-6.2                         |                            |
|           |              |               |                        |             |                                  | Work On: HW 5.1-5.3              | Work On: HW 5.1-5.3, 5.4-6.2 | Work On: HW 5.4-6.2, Practice for Exam | Work On: HW 5.4-6.2, Practice for Exam | Work On: Practice for Exam |

| Wk 13     | Textbook                                 | Video         |                        |             | Sun                              | Mon                           | Tues                    | Wed                  | Thur                             | Fri                 |
|-----------|--|---------------|------------------------|-------------|----------------------------------|-------------------------------|-------------------------|----------------------|----------------------------------|---------------------|
| Sections: | TRIG 6.3                                 | TRIG Video 14 | Solving Trig Equations | Class       |                                  |                               |                         |                      |                                  |                     |
|           | TRIG 7.1                                 | TRIG Video 15 | Law of Sines           |             |                                  | 7.3                           | Practice 6.3, 7.1 & 7.2 | 8.1, 8.2             | Practice 8.1-8.2, Preview of 8.4 | Quiz                |
|           | TRIG 7.2                                 |               |                        |             |                                  |                               |                         |                      |                                  |                     |
|           | TRIG 7.3                                 | TRIG Video 16 | Law of Cosines         | After Class | Due: Video Quiz on TRIG Video 15 |                               |                         | Due: HW 6.3, 7.1-7.2 |                                  | Due HW 7.3          |
|           | TRIG 8.1                                 | TRIG Video 17 | Polar Coordinates a    |             |                                  |                               |                         |                      |                                  |                     |
|           | TRIG 8.2                                 |               |                        |             | Work On: HW 6.3, 7.1-7.2         | Work On: HW 6.3, 7.1-7.2, 7.3 | Work On: HW 7.3         | Work On: HW 7.3      | Work On: HW 7.3                  | Work On: HW 8.1-8.2 |
|           | (Skip TRIG 8.3 Graphing Polar Equations) |               |                        |             |                                  |                               |                         |                      |                                  |                     |

| Wk 14     | Textbook                 | Video         |                     |             | Sun                              | Mon                           | Tues               | Wed  | Thur         | Fri |
|-----------|--------------------------|---------------|---------------------|-------------|----------------------------------|-------------------------------|--------------------|--|--------------|-----|
| Sections: | Classes Online This Week |               |                     | Class       |                                  |                               |                    |  |              |     |
|           | TRIG 8.4                 | TRIG Video 19 | Trig Representation |             |                                  | 8.5                           | Practice 8.4 & 8.5 | Quiz   | Thanksgiving |     |
|           | TRIG 8.5                 | TRIG Video 20 | Complex Products    |             |                                  |                               |                    |  |              |     |
|           | TRIG 9.1                 | TRIG Video 21 | Vector Properties a | After Class | Due: Video Quiz on TRIG Video 19 |                               | Due 8.1-8.2, 8.4   |  | Thanksgiving |     |
|           |                          |               |                     |             | Work On: HW 8.1-8.2, 8.4         | Work On: HW 8.1-8.2, 8.4, 8.5 | Work On: HW 8.5    | Work On: HW 8.5, Watch/Take Video Quiz for Video 21 (21 min) and Video 22 (20 min) |              |     |
|           |                          |               |                     |             |                                  |                               |                    |  |              |     |

| Wk 15 | Textbook  | Video                                    |  |             | Sun                              | Mon                              | Tues                      | Wed   | Thur                        | Fri         |
|-------|---|--|--|-------------|----------------------------------|----------------------------------|---------------------------|---|-----------------------------|-------------|
|       | Classes Online This Week                                  |  |  |             |                                  |                                  |                           |   |                             |             |
|       | TRIG 9.1 Vector   | TRIG Video 21 Vettore Properties and Ope |  | Class       |                                  | Practice 9.1                     | 9.3                       | Practice 9.2, 9.3                             | Quiz                        | Reading Day |
|       | TRIG 9.2 The Unit   | TRIG Video 22 The Unit Vector and Vecto  |  |             |                                  |                                  |                           |   |                             |             |
|       | TRIG 9.3 Dot Pr   | TRIG Video 23 The Dot Product            |  |             | Due: Video Quiz on TRIG Video 21 | Due: Video Quiz on TRIG Video 22 | Due: HW 8.5               |   | Due: HW 9.1, 9.2, 9.3       |             |
|       | (Skip TRIG 9.4 Sketching Curves described by Parametric   |  |  | After Class | Work On: HW 8.5, 9.1             | Work On: HW 8.5, 9.1, 9.2        | Work On: HW 9.1, 9.2, 9.3 | Work On: HW 9.1, 9.2, 9.3, Practice for Final | Work On: Practice for Final |             |
|       | (Skip TRIG 9.5 Finding Parametric Descriptions for Orient |  |  |             |                                  |                                  |                           |   |                             |             |

| Finals    |  |  |  |  | Sun | Mon | Tues | Wed | Thur | Fri                     |
|-----------|--|--|--|--|-----|-----|------|-----|------|-------------------------|
| Sections: |  |  |  |  |     |     |      |     |      | Final Exam 3:30-5:30 pm |