

# Math 2 - College Algebra Summer 2023 - Session 2

Synchronous Online

## Course Information

Zoom Link Available on Canvas  
MWF 1:00pm - 3:30pm

## Instructor Information



Malachi Alexander  
Email: majalexa@ucsc.edu

## Instructor Office Hours

Zoom Link Available on Canvas  
F 12:00pm-1:00pm

You may request an appointment with the instructor if the times provided does not work. To request, send an email with subject line "Math 2 Office Hours Request" and provide two or three times which work best for you. In general, I will not regularly check emails during weekends, so I cannot guarantee you responses during weekend days.

## Teaching Assistant

There is no teaching assistant to this course.

## Readings

*College Algebra, 2nd Edition*

[Link to Textbook](#)

## Course Overview

College algebra is a course full of tools necessary for ones journey through mathematics. In this course, we focus on foundational skills necessary to be successful in future mathematics courses and develop skills necessary for communication in the mathematics language. We begin with understanding the arithmetic of real numbers and move towards understanding functions and some of their essential properties.

This course has been separated into five weeks.

- 1: Number Systems
- 2: Expressions, Equations and Inequalities
- 3: Functions
- 4: Properties of Functions
- 5: Sequences and Series

## Participation

This course will be taught synchronously; however, the structure of this course *allows one to complete the course asynchronously without penalty*. In this format, you will be expected to read, attend lecture, and/or watch recorded lectures (found in each Week on Canvas). Although attendance to lecture is not mandatory, it is great opportunity to explore topics and ask questions! I hope this flexibility assists you in your success!

## Grading

In this course, we will be using *mastery-based grading* to determine final letter grades. This means that assignments will be scored on a satisfactory/unsatisfactory scale; if an 'unsatisfactory' score is designated on an assignment, you will be provided with feedback and will be given an opportunity to resubmit the work for regrading as long as it is submitted by the deadline. Each module consists of several smaller concepts to master which will count towards course completion.

The deadlines in this course are meant to be a guide for when students should complete assignments to successfully finish the course. *Late written assignments will always be graded without penalty; however, you will not be given written feedback and it may be graded at a later date.*

**Use the following to determine your final letter grade in the course:**

- A+ 96%-100% of mastery outcomes met.
- A 90%-95 % of mastery outcomes met.
- B+ 86%-89 % of mastery outcomes met.
- B 80%-85 % of mastery outcomes met.
- C+ 76%-79 % of mastery outcomes met.
- C 70%-75 % of mastery outcomes met.
- C- 60%-69 % of mastery outcomes met.
- F 0 %-59 % of mastery outcomes met.

## Course Schedule

Week	Monday	Wednesday	Friday
1	Section 1.1-1.2	Section 1.3-1.4	Section 1.5-1.6
2	Section 2.1-3.2	Section 2.3-2.4	Section 2.5-2.6
3	Section 3.1-3.2	Section 3.3-3.4	Section 3.5-3.6
4	Section 4.1-4.2	Section 4.3-4.4	Section 4.5-4.6
5	Section 5.1-5.2	Section 5.3-5.4	Final Exam

*Section numbers are in reference to the course notes. As the course progresses, these are subject to change as sections will be relabeled.*

## Learning Outcomes

- AI1:** Develop intuition related to number and functions which can be applied to real-world problems and situations.
- HC1:** Learn to collaborate through problem-solving, providing and receiving feedback, and communicating logical arguments to peers.
- LHtL1:** Developing professional skills related to pursuing mathematics, including reading mathematical texts, and techniques for internalizing important definitions and theorems.

## Weeks

**Week 1:** In this week, we will cover the foundations of arithmetic to reinforce knowledge of integer, rational, real, and complex numbers. We will develop skills related to translating between notations with fractions and exponents, as well as provide a basis for translating into mathematical language.

**Week 2:** In this week, we will cover the standard

## Assignments

**Knowledge Checks:** In each of the weeks, you will be assigned problems which will test your understanding of definitions and concepts. These will be used to determine mastery of course mastery outcomes.

**Written Assignments:** In each of the weeks, you will be given a written assignment aimed at reflecting on the key concepts of the week, focusing on communicating your understanding of concepts. Satisfactory completion of these assignments contribute to your overall mastery in the course.

**Final Exam:** At the end of the course, a final exam will be administered to test mastery for mastery outcomes not previously satisfied by the problem sets in the course.

## Student Resources

### Disability Resource Center

UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations to achieve equal access in this course, please affiliate with the DRC. I encourage all students to benefit from learning more about DRC services to contact DRC by phone at 831-459-2089 or by email at [drc@ucsc.edu](mailto:drc@ucsc.edu). For students already affiliated, make sure that you have requested Academic Access Letters, where you intend to use accommodations. You can also request to meet privately with me during my office hours or by appointment, as soon as possible. I would like us to discuss how we can implement your accommodations in this course to ensure your access and full engagement in this course.

### Title IX

The Title IX Office is committed to fostering a campus climate in which members of our community are protected from all forms of sex discrimination, including sexual harassment, sexual violence, and gender-based harassment and discrimination. Title IX is a neutral office committed to safety, fairness, trauma-informed practices, and due process.

Title IX prohibits gender discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking. If you have experienced sexual harassment or sexual violence, you can receive confidential support and advocacy at the Campus Advocacy Resources & Education (CARE) Office by calling 831-502-2273. In addition, Counseling & Psychological Services (CAPS) can provide confidential, counseling support, 831-459-2628. You can also report gender discrimination directly to the University's Title IX Office, 831-459-2462. Reports to law enforcement can be made to UCPD, 831-459-2231 ext. 1. For emergencies call 911.

### Counseling and Psychological Services

Many students at UCSC face personal challenges or have psychological needs that may interfere with their academic progress, social development, or emotional well-being. The university offers a variety of confidential services to help you through difficult times, including individual and group counseling, crisis intervention, consultations, online chats, and mental health screenings. These services are provided by staff who welcome all students and embrace a philosophy respectful of clients' cultural and religious backgrounds, and sensitive to differences in race, ability, gender identity and sexual orientation.

### Student Success and Engagement Hub

The Division of Student Success provides campus-wide coordination and leadership for student success programs and activities across departments, divisions, the colleges, and administrative units.

### Tutoring and Learning Support

At Learning Support Services (LSS), undergraduate students build a strong foundation for success and cultivate a sense of belonging in our Community of Learners. LSS partners with faculty and staff to advance educational equity by designing inclusive learning environments in Modified Supplemental Instruction, Small Group Tutoring, and Writing Support. When students fully engage in our programs, they gain transformative experiences that empower them at the university and beyond.

### Slug Support Program

College can be a challenging time for students and during times of stress it is not always easy to find the help you need. Slug Support can give help with everything from basic needs (housing, food, or financial insecurity) to getting the technology you need during remote instruction. To get started with SLUG Support, please contact the Dean of Students Office at 831-459-4446 or you may send us an email at [deanofstudents@ucsc.edu](mailto:deanofstudents@ucsc.edu).

### Slug Help/Technology

The ITS Support Center is your single point of contact for all issues, problems or questions related to technology services and computing at UC Santa Cruz. To get technological help, simply email [help@ucsc.edu](mailto:help@ucsc.edu).

### On-Campus Emergency Contacts

For all other help and support, including the health center and emergency services, start here. Always dial 9-1-1 in the case of an emergency.