



MATH 040x: Basic Mathematical Skills Units

Fall 2024—MWF—9:00-9:50am

Location: THH214

Instructor: Aykut Arslan

Online Office: <https://usc.zoom.us/j/7177630888>

Office Hours: T/TH 9:00-9:50am

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Textbook

Intermediate Algebra by Elayn Martin-Gay

ISBN-13: 978-0134196176

Course Description

This course is intended to be a review of algebra, including but not limited to: real numbers, linear equations and inequalities, functions, graphs, systems of equations, exponents, polynomials, rational expressions, radicals, quadratic equations and solutions. Optional topics: Complex numbers, exponential and logarithmic functions.

Learning Objectives

This course should help develop the mathematical skills necessary to prepare students for MATH 108g (Contemporary Precalculus), MATH 114xg (Foundations of Statistics), and MATH 117g (Introduction to Mathematics for Business and Economics)

Grading Breakdown

Assessment Tool (assignments)	% of Grade
Homework	40%
Midterm 1	15%
Midterm 2	15%
Cumulative Final Exam	30%
TOTAL	100%

Grading Scale

This class is graded CR/NC (credit or no credit). Students will receive a CR if they receive a 60% or above.

Assignment Due Dates

Weekly homework will be due on **every Thursday at 11:59PM**. There will be no homework during weeks that an exam is scheduled.

Assignment Submission Policy

Homework will be submitted online via Gradescope. Late homework will not be accepted. Two lowest homework grades will be dropped at the end of the semester.

Online resources

- [Khan Academy](#) contains videos related to every topic that we will be covering in this course.
- [WolframAlpha](#) is a powerful online calculator, with support for algebra.

Course Schedule and important dates

Note that the course schedule and topics to be covered may change.

Weeks	Topics	Important Dates
Week 1 (8/26 - 8/30)	Algebraic expressions (1.2 – 1.4)	
Week 2 (9/2 - 9/6)	Equations and inequalities (2.1, 2.3, 2.4)	Homework Begins Holiday: 9/2
Week 3 (9/9 - 9/13)	Inequalities (2.5 – 2.7)	
Week 4 (9/16 - 9/20)	Graphs and functions (3.1 – 3.3)	
Week 5 (9/23 - 9/27)	Graphs and functions (3.4, 3.7)	
Week 6 (9/30 - 10/04)	System of equations (4.1, 4.3)	Midterm 1: 10/04
Week 7 (10/7 - 10/11)	System of equations (4.2, 4.3)	Fall recess: 10/10 - 10/11
Week 8 (10/14 - 10/18)	Exponents (5.1, 5.2)	
Week 9 (10/21 - 10/25)	Rational exponents, radicals (7.1, 7.2)	
Week 10 (10/28 -11/01)	Polynomials (5.3, 5.4)	Midterm 2: 11/01
Week 11 (11/4 - 11/8)	Quadratic functions (8.1, 8.2)	
Week 12 (11/11- 11/15)	Quadratic functions (8.5)	
Week 13 (11/18 -11/22)	Exponential functions (9.3, 9.4)	
Week 14 (11/25- 11/29)	Logarithmic functions (9.5, 9.6)	Thanksgiving recess: 11/27 - 12/01
Week 15 (12/2 - 12/6)	Integrated review	
FINAL		Final: Monday, December 16 11:00 am – 1:00 pm

Statement on Academic Conduct and Support Systems

Academic Integrity:

The University of Southern California is a learning community committed to developing successful scholars and researchers dedicated to the pursuit of knowledge and the dissemination of ideas. Academic misconduct, which includes any act of dishonesty in the production or submission of academic work, compromises the integrity of the person who commits the act and can impugn the perceived integrity of the entire university community. It stands in opposition to the university's mission to research, educate, and contribute productively to our community and the world.

All students are expected to submit assignments that represent their own original work, and that have been prepared specifically for the course or section for which they have been submitted. You may not submit

work written by others or “recycle” work prepared for other courses without obtaining written permission from the instructor(s).

Other violations of academic integrity include, but are not limited to, cheating, plagiarism, fabrication (e.g., falsifying data), collusion, knowingly assisting others in acts of academic dishonesty, and any act that gains or is intended to gain an unfair academic advantage.

The impact of academic dishonesty is far-reaching and is considered a serious offense against the university. All incidences of academic misconduct will be reported to the Office of Academic Integrity and could result in outcomes such as failure on the assignment, failure in the course, suspension, or even expulsion from the university.

For more information about academic integrity see [the student handbook](#) or the [Office of Academic Integrity’s website](#), and university policies on [Research and Scholarship Misconduct](#).

Please ask your instructor if you are unsure what constitutes unauthorized assistance on an exam or assignment, or what information requires citation and/or attribution.

Students and Disability Accommodations:

USC welcomes students with disabilities into all of the University’s educational programs. [The Office of Student Accessibility Services](#) (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at osas.usc.edu. You may contact OSAS at (213) 740-0776 or via email at osasfrontdesk@usc.edu.

Support Systems:

[Counseling and Mental Health](#) - (213) 740-9355 – 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

[988 Suicide and Crisis Lifeline](#) - 988 for both calls and text messages – 24/7 on call

The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national network of over 200 local crisis centers, combining custom local care and resources with national standards and best practices. The new, shorter phone number makes it easier for people to remember and access mental health crisis services (though the previous 1 (800) 273-8255 number will continue to function indefinitely) and represents a continued commitment to those in crisis.

[Relationship and Sexual Violence Prevention Services \(RSVP\)](#) - (213) 740-9355(WELL) – 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to gender- and power-based harm (including sexual assault, intimate partner violence, and stalking).

[Office for Equity, Equal Opportunity, and Title IX \(EEO-TIX\)](#) - (213) 740-5086

Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

[Reporting Incidents of Bias or Harassment](#) - (213) 740-5086 or (213) 821-8298

Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

[The Office of Student Accessibility Services \(OSAS\)](#) - (213) 740-0776

OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

[USC Campus Support and Intervention](#) - (213) 740-0411

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

[Diversity, Equity and Inclusion](#) - (213) 740-2101

Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

[USC Emergency](#) - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call

Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

[USC Department of Public Safety](#) - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call

Non-emergency assistance or information.

[Office of the Ombuds](#) - (213) 821-9556 (UPC) / (323-442-0382 (HSC)

A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

[Occupational Therapy Faculty Practice](#) - (323) 442-2850 or otfp@med.usc.edu

Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.