

MATH 100B
Room: Samuelson 108
Instructor: Drewcilla Walter
E-mail: walterd1@cwu.edu

Introductory Algebra Spring 2022
Credits: 5
Office: 228G, Samuelson
Office Hours: 10:00-12:50, M-F
or by appointment

Required Materials

Course pack
Calculator with exponents, Graphing Calculator T183-84, preferred

Recommended Materials

One 80-100 page spiral or hardbound notebook with graph or lined paper, pencils, erasers.

Course Description

This course is designed to prepare students for college-level mathematics by reinforcing algebraic skills and concepts. Symbolic, graphical, and numeric representations will be studied to understand how the concepts of algebra make sense, connect, and are applied in real life situations. Credits will not be allowed toward meeting bachelor's degree requirements.

Prerequisites

Prerequisite: ALEKS score of 30-44, successful completion of MATH 100A

Math Mission Statement

In support of liberal education, scientific careers, teacher preparation, and actuarial science, the mathematics department prepares students for quantitative and symbolic reasoning and advanced mathematical skills through general education, service, major and graduate programs.

Attendance

I expect you to work on assignments every day that class is in session. Your scores and grades will reflect your understanding, which is developed and strengthened through consistent work in class sessions, participation in discussions, and the effort that is put into assignments and tests. If an emergency makes it impossible for you to attend class, please contact me immediately.

Course Rationale

This course reinforces concepts of Algebraic skills and concepts. Modeling through numerical, graphical and traditional algebraic approaches will be used to give students an understanding of these concepts. An inquiry based-approach will be used to understand how the concepts of algebra make sense, connect, and are applied in real life situations. This type of application and understanding is meant to prepare students for future math classes and field of study.

Grading

This course is standards-based.
Grades will be issued based on the number of standards passed.
Passing grades will be based on three criteria:

1. Completion of Budget Project (score of 80+)
2. Completion of at least 15 standards

Grading Scale

# of Standards met	20	18-19	16-17	15	14	12-13	11 and under
	100%	90-95%	80-85%	75%	70%	60%-65%	
Grade	A	A-	B	C	C-	D	F

Student learning outcomes: Students who successfully complete this course will be able to show mastery on a set of mathematical tasks called standards.

There are a total of 20 standards that will be assessed throughout the term*; 16 of which are based on course content, 3 standards are based on participation within the course (Homework, Attendance and Attendance in PALs) and one is based on successful completion of the budget project. To show mastery of a topic, students must meet the Standard requirements.

Learner Outcomes

Upon successful completion of this course, the student will be able to show mastery of the following learning standards:

- STANDARD 1: Numeration & Number Theory
- STANDARD 2: Skills & Operations Review
- STANDARD 3: Fractions (Common Fractions, Decimals, Percents)
- STANDARD 4: Expressions, Equations & Functions
- STANDARD 5: Ratios & Proportion
- STANDARD 6: Mathematical Foundations
- STANDARD 7: Scatterplots & Graphing
- STANDARD 8: Statistics
- STANDARD 9: Quantitative Analysis & Reasoning
- STANDARD 10: Numbers in the Real World
- STANDARD 11: Rate of Change
- STANDARD 12: Linear Functions
- STANDARD 13: Systems of Equations
- STANDARD 14: Inequalities
- STANDARD 15: Introduction to Polynomials
- STANDARD 16: Quadratic Equations & Functions
- ***STANDARD 17: Homework (80%)
- ***STANDARD 18: Attendance (80%)
- ***STANDARD 19: Attendance in PALs sessions (8 visits)
- ***STANDARD 20: The Budget Project

In order to meet the requirements for:

Standards 1-16, Students must show mastery of course content standards by passing the standard assessment with a score of 80% or higher.

*Students may retest on the standards if their first attempt was not successful within two weeks of the original scheduled assessment. Students may retake standards up to a maximum of five times.

Standard 17, students must obtain at least 80% as an average score on all assigned homework;

Standard 18, students must attend a minimum of 80% of assigned class days (excused absences do not count against the student);

Standard 19, students must attend a minimum of 8 PALs sessions.

Note: If students are unable to attend these sessions, arrangements can be made with the Tutoring Center to work around student's schedules.

Standard 20, students must score at least 80% on the budget project. The Budget Project is due February 18th.

Exams

Each standard must be passed by showing mastery on a standards exam. Standard exams must be passed with a score of 80% or better. Students will be allowed to retake standard exams in class on testing days, during my office hours or by appointment.

Homework Advice

Homework is assigned to provide enough practice to master concepts and help you to retain important information and make connections between concepts and ideas we discuss in class. You will be successful if you attend class consistently, take notes and complete your daily homework. Doing a little every day in manageable pieces, will help you to build good habits and recognize any difficulties you have. You might find that you benefit from talking through the material with one or more classmates. If this is the case, you might consider forming a study group.

Homework is due on the day before test day, but the expectation is that it will be completed on a daily basis following the lessons in order to strengthen understanding of the material.

Teacher Expectations

- *Be prepared (have necessary materials, complete homework and assignments)
- *Be present (show active listening, focus on class happenings, keep cell phones put away)
- *Be active (participate in discussions and activities, ask questions)
- *Be your best (put forth your best effort, ask if unsure, try, try, try)
- *Be respectful (treat others as you want to be treated in discussions and question & answer sessions)

"I'm having trouble with..."

There may come a time in this or other classes where you find yourself stuck and struggling to understand the material. Note that this is something that happens to everyone, and when it happens to you, you have several options:

- Ask a classmate or friend
- Visit the drop-in tutoring area at the University Math Center in Brooks Library
- Come to my office during office hours for assistance
- Attend PALS (Peer Assisted Learning) tutoring groups
- Come to office hours
- ask specific questions- "I don't understand why you/they did _____"; "I did this listing step by step work through of your problem, what am I missing"

Disability Resources Statement

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with your instructor. Students with disabilities should contact Disability Services to discuss a range of options to

removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963.2214 or email ds@cwu.edu for more information.

Faith/Tradition Observances Policy

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963 – 1515 for further information or questions.

Spring 2022 Calendar

* The following calendar is a tentative schedule and is subject to change based on understanding, mastery and general pace of each particular class of students*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		3/29/2022	3/30/2022	3/31/2022	4/1/2022	4/2/2022
		first day	S1	S1	S2	
4/3/2022	4/4/2022	4/5/2022	4/6/2022	4/7/2022	4/8/2022	4/9/2022
	S1 TEST No calculator	S2	S3	S3	S3	
4/10/2022	4/11/2022	4/12/2022	4/13/2022	4/14/2022	4/15/2022	4/16/2022
	S2 AND S3 TEST + RETAKE No calculator	S4	S4	S5	S5	
4/17/2022	4/18/2022	4/19/2022	4/20/2022	4/21/2022	4/22/2022	4/23/2022
	S4 AND S5 TEST+ RETAKE	S6	S6	S7	S7	
4/24/2022	4/25/2022	4/26/2022	4/27/2022	4/28/2022	4/29/2022	4/30/2022
	S6 AND S7 TEST+ RETAKE	S8	S8	S9	S9	
5/1/2022	5/2/2022	5/3/2022	5/4/2022	5/5/2022	5/6/2022	5/7/2022
	S8 AND S9 TEST+ RETAKE	S10	S10	S11	S11	

5/8/2022	5/9/2022	5/10/2022	5/11/2022	5/12/2022	5/13/2022	5/14/2022
	S10 AND S11 TEST+ RETAKE	S12	S12	S12	S13 AND BUDGET PROJECT DUE	
5/15/2022	5/16/2022	5/17/2022	5/18/2022	5/19/2022	5/20/2022	5/21/2022
	S12 AND S13 TEST+ RETAKE	S14	S14	S15	S15	
5/22/2022	5/23/2022	5/24/2022	5/25/2022	5/26/2022	5/27/2022	5/28/2022
	S14 AND S15 TESTS+ RETAKE	S16	S16	S16		
5/29/2022	5/30/2022	5/31/2022	6/1/2022	6/2/2022	6/3/2022	6/4/2022
	MEMORIAL DAY	S16 TEST+ RETAKE	RETAKE	RETAKE	RETAKE	
6/5/2022	6/6/2022	6/7/2022	6/8/2022	6/9/2022	6/10/2022	6/11/2022
	Final's week					