Mathematics Department
400 E University Way
Ellensburg, WA 98926

MATH 100B Introductory Algebra Fall 2021
Room: none Credits: 5

Instructor: Dave Wylie Office: Samuelson 228A or on Zoom
E-mail: david.wylie@cwu.edu Office Hours: 10am-10:50am Monday-Friday

Text
Coursepack

Recommended Materials
Calculator (Graphing Calculator T183-84, if moving on to Intermediate Algebra and Pre-Calculus), 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.

Course Rationale

This course reinforces 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 two criteria:

1. Meet at least 13 Standards
2. Completion of Budget Project (score of 80+)

Grading Scale

# of Standards met	17	16	15	14	13	12	11	10 and under
Grade	A	A-	B+	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 17 standards that will be assessed throughout the term*; 15 of which are based on course content, 2 standards are based on participation within the course (Homework and Attendance in PALs). To show mastery of a topic, students must meet the Standard requirements.

Project

The budget project will not be calculated into the final grade, but you must receive a score of 80 or higher on the project to pass the course. You will be expected to do a majority of the work outside of class and can begin work anytime. Your project will be presented to the class as a gallery walk. Your peers will be able to view your project, peer review your work and ask questions. It will be important that your work is clear and concise.

Successful Completion

To advance to future courses, you must earn a C or better in the course work and complete the Budget Project. This class does not count towards degree requirements or GPA.

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 standards throughout the quarter.

Homework Advice

Homework is assigned to you so you have 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 difficulties you have early on. 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. If you regularly participate in a study group, you must ensure that you understand and can complete the content independently because your study group will not work with you on tests.

Homework is due on standard 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.

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: Expressions, Equations & Functions
- STANDARD 4: Ratios & Proportion
- STANDARD 5: Mathematical Foundations
- STANDARD 6: Scatterplots & Graphing
- STANDARD 7: Statistics
- STANDARD 8: Quantitative Analysis & Reasoning
- STANDARD 9: Numbers in the Real World
- STANDARD 10: Rate of Change
- STANDARD 11: Linear Functions
- STANDARD 12: Systems of Equations
- STANDARD 13: Inequalities
- STANDARD 14: Introduction to Polynomials
- STANDARD 15: Quadratic Equations & Functions
- ***STANDARD 16: Homework (80%)
- ***STANDARD 17: Attendance in PALs sessions (8 visits)

In order to meet the requirements for:

Standards 1-15, 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 16, students must obtain at least 80% as an average score on all assigned homework;

Standard 17, 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 or instructor to work around student's schedules.

Teacher Expectations

*Be on time for each class session
*Be prepared (have necessary materials, complete homework and assignments)
*Be present (show active listening, focus on class happenings, keep cell phones 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, projects, presentations, 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 if 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

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.

Due to COVID-19, students in this classroom are required to wear masks that cover both the nose and the mouth. If you attend class without an appropriate mask you will be asked to leave and obtain a mask before returning.

If you do not have a face mask, Central Washington University can provide one for you. If you have not yet received your CWU-supplied mask, please go the SURC Information Desk. Some departments/programs may also provide disposable masks. Please obtain a suitable mask prior to the start of your first class. Information on appropriate masks can be found at this web site: https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/about-face-coverings.html. Standard face shields, single-layer neck gaiters, single layer masks, masks with one-way vent valves, and handkerchiefs are not considered appropriate masks for this course.