

MATH 100A  
Room: Black 141  
Instructor: Drewcilla Walter  
E-mail: walterd1@cwu.edu

Pre-Algebra  
Credits: 5  
Office: Samuelson 228-g  
Office Hours: 9-9:50 Monday through Friday  
Or by appointment (through blackboard)

Winter 2021

### **Text**

Math 100A Coursepack

### **Recommended Materials**

Calculator (with exponents), one 80-100 page spiral or hard-bound notebook with graph or lined paper, pencils, erasers.

### **Course Description**

This course is designed to provide students with number sense, fractional concepts, problem solving, beginning statistics, graphing, and algebraic skills and concepts necessary to be successful in further developmental courses and future college math courses.

Credits will not be allowed toward meeting bachelor's degree requirements.

### **Prerequisites**

Prerequisite: ALEKS score of 29 or less.

### **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 attend every session of the class. 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, projects and tests. If you have to be absent for an emergency, please contact me at the earliest possible time.

The last day to add/drop the class is September 28, 2021

### **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 their future math classes and field of study.

### **Grading**

This course is standards-based.

Grades will be issued based on the number of standards passed.

### **Grading Scale**

# of Standards met	18	17	16	15	14	13	12	11 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 18 standards that will be assessed throughout the term\*; 17 of which are based on course content, 3 standards are based on participation within the course (Homework, Attendance and Attendance in PALs). 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: Whole Numbers & the Number Line
- STANDARD 2: Negative Numbers
- STANDARD 3: Integers & Basic Operations
- STANDARD 4: Introduction to Algebra
- STANDARD 5: Working with Expressions
- STANDARD 6: Radicals & Exponents
- STANDARD 7A: Introduction to Fractions
- STANDARD 7B: Operations with Fractions
- STANDARD 8A: Introduction to Decimals
- STANDARD 8B: Operations with Decimals
- STANDARD 9: Ratios & Proportions
- STANDARD 10: Percentages
- STANDARD 11: Geometry
- STANDARD 12: Unit Analysis & Conversion
- STANDARD 13: Introduction to Statistics: Mean, Median, Mode, Range
- STANDARD 14: Introduction to Graphing
- STANDARD 15: Scientific Notation
- \*\*\*STANDARD 16: Homework (80%)
- \*\*\*STANDARD 17: Attendance (80%)
- \*\*\*STANDARD 18: 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 80% of assigned class days (excused absences do not count against the student);

Standard 18 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.

### **Homework Advice**

Homework is assigned 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 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.

### **"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

### **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](mailto:ds@cwu.edu) for more information.

### **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)

### **Academic Dishonesty:**

Any student who submits work that is suspected to be a product of academic dishonesty will have the opportunity to meet with me to discuss my suspicion and confirm or deny its accuracy. A formal Behavior of Concern report will be submitted to the office of Student Rights & Responsibilities and, depending on the severity of the infraction, I may issue either a failing grade for the specific assignment, exam, and/or for the course.

\* 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\*

September 2021						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22 First Day of Class!	23 s1	24 s1	25 s2
26	27 s2	28 Change of Schedule Ends s3	29 s3	30 s3		
October 2021						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 s3	2
3	4 Tests 1,2,3	5 s4	6 s4	7 s5	8 s5	9
10	11 Test 4,5	12 s6	13 s6	14 s7	15 s7	16
17	18 Test 6 Test 7A	19 s7	20 s7	21 s8	22 s8	23

24	25 Test 7B Test 8A	26 S8	27 S8	28 S9	29 S9	30
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November 2021						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1 Test 8B,9	2 S10	3 S10	4 s10	5 S11	6
7	8 Test 10	9 S11	10 S11	11 Veterans' Day	12 s12	13
14	15 Test 11	16 S12	17 S13	18 S13	19 S13	20
21	22 Test 12,13	23 S14	24 Thanksgivin g	25 Thanksgivin g	26 Thanksgiving	27
28	29 S14	30 S14				

December 2021						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 S15	2 S15	3 Last Day of Class S15	4
5	6 Study Day	7 10 am class Test 14,15 8 am-10 am	8 9 am class Test 14,15 8 am-10 am	9 11 am class Test 14, 15 8 am-10 am	10 12 pm class Test 14, 15 Noon-2 pm	11