



DEPARTMENT OF MATHEMATICS CENTRAL WASHINGTON UNIVERSITY

Math 164 (Online), Spring 2022

It is your responsibility to read, understand, and follow the syllabus guidelines.

Instructor: Molly Andaya molly.andaya@cwu.edu	Course Format: Online
Campus Office: SAM 228K	Office Hours: Virtual by appointment

Text: Course Pack (written by me), *Mathematics for Elementary Teachers, Beckmann, 5e*, Inclusive Access. This text is also used in Math 226 (elementary) and Math 316 (middle level).

Supplies: lined paper and pencils, colored pens or pencils/highlighters, calculator (need not be graphing), manipulatives (templates provided), access to printer, ability to scan documents

Course Description and Outcomes: This course is designed for students who plan to teach at the elementary or middle level grades and who have declared education as their major course of study. We will learn about the structure of the real number system, properties of and operations on whole numbers, integers, and rationals, decimal representation, and elementary problem solving. After completing this course, you should be able to

- Persevere when faced with new, challenging concepts
- Solve problems
- Make and test conjectures
- Formulate counterexamples
- Understand the meaning of whole, integer, rational and real numbers
- Work with and understand place value in various base systems
- Understand and work with properties of numbers
- Add, subtract, multiply and divide whole numbers, integers, and rational numbers conceptually using manipulatives
- Demonstrate knowledge of algorithms for addition, subtraction, multiplication and division of whole numbers, integers, and rational numbers

Work and Assessment: **You are taking classes to become a teacher...you need to start to shift your thinking to the "teacher mentality". Your work should start to become "teacher quality". The work you do in the classes you are taking is practice for the work you will do for your students, their parents, as well as administrators. Everything that you turn in to me (or any other instructor) **should reflect the quality of work you will be doing as a teacher.***

- All work will be put into a category: Homework and Activities, Quizzes/Assessments.
- Categories will not be weighted, but the quiz/assessment category will have the highest number of points possible.

DUE DATES & LATE WORK

- The due date for work submitted for this class will be Friday, 11:59PM.
 - Optional revisions and resubmissions will be accepted Saturday and Sunday.
 - Weekly Quizzes will be available Saturday and Sunday.
- Grades will be updated periodically throughout each week. Please watch your grade and ask questions if you have them.



DEPARTMENT OF MATHEMATICS CENTRAL WASHINGTON UNIVERSITY

- Please manage your time for this class. **Late work is not accepted.** If *extenuating* (my judgement) circumstances exist, contact me *well in advance*.
 - **Documentation must accompany any request for deadline extensions.**
- Missed course requirements are entered into grades as “0” points.
- **IMPORTANT:** Technology glitches can, and are likely to, occur; **do not wait until the last minute when doing class work.** If you run out of time to complete a quiz, you will get “kicked off” and you will not be able to re-access. Activity and homework submissions close at the deadline, and if you try to submit after the deadline, you will be unable to submit. *Email submissions are not accepted.*

Challenges to Grades

There is a statute of limitations of one week after assignments are graded for challenges to graded items. This means you have one week to raise any issues with your grade. If you do not check GRADES in Canvas and do not realize until several weeks after an assignment is due that you have a question about the score you received, it will be too late to make any grade changes. If you keep up to date by checking your e-mail and GRADES, you should have no issues. I will normally have all assignments graded within one week after they are due.

Homework and Activities

- HW
 - Assigned from the text and/or my created documents.
 - Deadlines will be noted on Canvas.
- Activities
 - Assigned from the course pack and/or the text.
 - Deadlines will be noted on Canvas.
- Course Reflection

Quizzes/Assessments

- Online Quizzes (weekly)
 - There will be a time limit and you must take the quiz in one sitting.
 - There may be file upload requests within the quizzes.
- Written Quizzes (including the final exam)
 - These assessments must be printed and completed by hand before submitting to Canvas.
- There will be an opportunity for one quiz retake at the end of the quarter.

Submitting Electronic Files

- All electronic files must be submitted in .doc, .docx or .pdf format. If you don’t have Microsoft Office, you can download it for free, using your CWU email and password from the [MS Office website](#). Here is the guide on [How to download MS Office](#). Mac users make sure to save documents with visible extension (.docx or .rtf).

Grading Scale

93-100%	90-92.9%	87-89.9%	83-86.9%	80-82.9%	77-79.9%	73-76.9%	70-72.9%	67-69.9%	63-66.9%	60-62.9%	<60%
A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F



DEPARTMENT OF MATHEMATICS CENTRAL WASHINGTON UNIVERSITY

Other Important Information

Diversity

University-level education is about broadening horizons and looking at academic issues from a variety of perspectives. With this in mind, the participants in this class are encouraged to bring their own life experiences and viewpoints to bear on classroom discussions and assignments. Along with the freedom to express one's own views comes the responsibility to respect the views of others. No student will be discriminated against on the basis of race, ethnicity, age, creed, religion, gender, sexual orientation, marital status, or political ideology.

Academic Honesty

Students are on their honor to follow the student conduct code as outlined in the [Washington Administrative Code](#). Violations of this section will result in a failing grade in the course in addition to further possible university sanctions.

Disability Services

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations: Hogue Hall 126, (509)963-2214, DS@cwu.edu

Good luck in this course! I hope you find it enjoyable and leave class with valuable resources, confidence and, most importantly, excitement to teach math concepts.