



**DEPARTMENT OF MATHEMATICS
CENTRAL WASHINGTON UNIVERSITY
COURSE SYLLABUS
SPRING 2020**

1. MATH 164.001 and MATH 164.002

Course Number	TIME/DAY	BLDG/ ROOM	INSTRUCTOR
Section 1: 30213 Section 2: 34407	Your time (weekly)	Your House (pj's are good too!)	Molly Andaya

2. Textbook and Materials:

- Textbook, *Mathematics for Elementary Teachers with Activities*, 5th edition by Sybilla Beckmann
- Access to a printer
- Colored pencils (or different highlighters work well) and a calculator
- A notebook to keep everything organized (and collected for future reference if you want) is helpful, but OPTIONAL

3. Office Hours and Contact Info:

- *Office:* Usually Samuelson 228K (but my home this quarter ☺)
- *Email:* molly.andaya@cwu.edu
- *My availability:* M – F 9:00am – 3:00pm via email. Email will be checked and answered two times daily (9am and 2pm). If you need to meet virtually, please email me and we will set up a time to talk either through Zoom or via phone.

4. Course Description:

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.

5. Course Outcomes:

After completing this course you will be able to

- Persevere when faced with new, challenging concepts
- Problem solve
- 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

6. Course Expectations:

Students will be expected to complete all assigned activities, readings, homework, assessments and projects on time (weekly). You may want to keep your paperwork in a notebook or folder dedicated to this class. I have the course set up so that you can work independently each week. Due dates for most assigned work is Sunday, 11:59pm. Please manage your time for this class. **Late assignments and activities will be not be accepted**, unless there are EXTRAORDINARY circumstances. Any requests for deadline extensions will be individually reviewed. All assignments and activities should be NEATLY written **in pencil** and all supporting work must be shown.

**You are taking classes to become a teacher...your work should start becoming "teacher quality". The work you do in the classes you are taking is practice for the work you will do in front of your students (and their parents) and administrators. Everything that you turn in to me (or any other instructor) should demonstrate the type of work you will be doing as a teacher.*

7. Attendance Policy:

There will be no attendance policy for this course.

8. Grading Policy:

The course grade will be determined from your overall grade based on the following categories:

Activities: 30% Homework/Written work: 30% Quizzes/Assessments: 40%

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
> 93%	90 - 92%	87 - 89%	83 - 86%	80 - 82%	77 - 79%	72 - 76%	70 - 72%	67 - 69%	63 - 66%	60 - 62%	< 60%

9. Academic Honesty:

The integrity of students and their written and oral work is a critical component of the academic process. There are times when it is proper to get help from others and times when it is not. Feel free to ask others for help on homework, activities and other non-assessment assignments. When completing quizzes and written assessments, all work will be done individually. All written work submitted in this course must properly document with any outside sources used. The submission of another's work as one's own is plagiarism, and will be dealt with using the procedures outlined in the Undergraduate Catalog.

10. Disability Accommodations:

Any student requiring instructional modifications due to a documented disability should make an appointment to meet with me as soon as possible. An official copy of your "Confirmation of Eligibility for Academic

Adjustments” from the Disability Support Services Office documenting the disability will be expected to receive such accommodations.

11. Course Outline:

This schedule is a **rough** estimation of the time that will be spent on the following topics. This schedule may be modified by the instructor at any time during the course. I will post a detailed “Weekly To Do” list each week on Canvas. Refer to that regularly to make sure you are keeping up with the class. Make sure you understand my late work policy (no late work, see section #6).

Week	Topic
1 (April 8 - April 12)	Problem Solving
2 - 3 (April 13 - April 26)	Bases (other than base 10, then moving to base 10)
4 (April 27 - May 3)	Decimals
5 - 6 (May 4 - May 17)	Fractions
7 (May 18 - May 24)	Adding and Subtracting
8 (May 25 - May 31)	Multiplication
9 (June 1 - June 8)	Division (and wrap up)
Finals Week (June 8 - June 11)	Final Assessment (all sections are fair game)

12. Student Success:

Multiple resources are available to help students move past challenges and become academically successful.

✓ [Academic Success Center](#)

The CWU Academic Success Center helps students learn strategies that can increase GPA and improve course pass rates. All services are available online via Zoom unless otherwise noted. Expanded hours are available to meet student need. To access, go to www.cwu.edu/asc or <https://tutortrac.cwu.edu>, use your CWU login and password, and click the **Schedule an Appointment** link.

✓ [Tutors](#)

Several forms of peer tutoring are available. All Canvas courses include a direct link to a tutoring resources page. The PALS program pairs a trained tutor with a faculty member to promote learning strategies and content comprehension in specific courses. eTutoring allows students to get online help in 15 subjects with expanded hours of 5am-midnight, 7 days per week.

To access, students visit www.etutoringonline.org, select CWU, and request a password link be sent to their CWU email address. A list of subjects is available at <https://www.cwu.edu/academic-success/online-tutoring/online-tutoring>

✓ [Academic Coach](#)

Students can work one-on-one with an [academic coach](#) in individualized sessions that focus on building academic strength. Students can improve time management, develop a study plan, unpack how to process new information for deep understanding, increase reading and comprehension skills, and more. Coaches help students discover learning best strategies, maximize academic experiences, and reduce stress.

✓ [Writing Center](#)

Learning to write well can be a difficult skill set to develop, a process made easier via targeted feedback via the [CWU Writing Center](#). Students submit papers for review and receive detailed video comments from writing consultants in various disciplines. Students can also request a phone consult. Best results are achieved when students plan early for multiple rounds of feedback and revision.

✓ [Math Center](#)

Learning mathematics is challenging for many students. Students who struggle with math can access the [CWU Math Center](#). Students can connect with a math tutor for live help sessions that deal with all Quantitative Reasoning, 100-level, and other math courses. Zoom meetings, whiteboards, and other tools are used to promote deeper understanding of mathematics.