



DEPARTMENT OF MATHEMATICS
CENTRAL WASHINGTON UNIVERSITY
COURSE SYLLABUS
SPRING 2020

1. MATH 226.002

Course Number	TIME/DAY	BLDG/ ROOM	INSTRUCTOR
32915	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, calculator, protractor, and ruler
- 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. This course focuses on an intuitive development of geometric ideas including point set Euclidean geometry, measurement, area, perimeter, volume, and transformational geometry. Students completing the course should develop precise mathematical language, improve their understanding of geometric concepts, and develop methods to teach geometry for understanding.

5. Course Outcomes:

After completing this course you will be able to

- Persevere when faced with new, challenging concepts
- Express mathematical ideas orally and in writing
- Make and test conjectures
- Formulate counterexamples
- Find the perimeter, area, and volume of geometric figures
- Use standard and non-standard units of measure to solve problems

- Convert from one unit to another in standard and metric measurement systems
- Name and discuss two and three dimensional figures
- Demonstrate a knowledge of the relationship between parallel lines and angle measure
- Demonstrate a knowledge of the properties of triangles and special cases of triangles
- Demonstrate understanding of the sum of interior, central and exterior angles of polygons
- Explain and use the properties of quadrilaterals
- Identify and create basic geometric transformations
- Identify and explain different types of symmetries

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)	Geometry Basics
2 (April 13 – April 19)	Lines and Angles
3 - 4 (April 20 – May 3)	Circles and Polygons
5 - 6 (May 4 – May 17)	Measurement (conversions, perimeter and area)
7 (May 18 – May 24)	Surface Area/Volume
8 (May 25 – May 31)	Symmetry and Transformations
9 (June 1 – June 7)	Pythagorean Theorem and Polyhedron
Finals Week (June 8 – June 11)	Final Assessment

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.