

C O U R S E

S Y L L A B U S



MATH226 Winter 2023 M-Th: 9-9:50am & 10-10:50am

Instructor Information

Instructor: Amanda von Jentzen ☺

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Office Hours: Samuelson 228H

Monday through Thursday 12-1pm

Friday: by appointment only

Required Materials

Math 226 Course Pack

Mathematics for Elementary Teachers, Beckmann, 5e, Inclusive Access. This text is also used in Math 164 (elementary) and Math 316 (middle level).

Calculator (phone calculators will NOT be allowed, no exceptions)

Supplies

Lined paper and pencils, colored pens or pencils/highlighters, calculator (need not be graphing), binder (1½ - inch should be sufficient), 5-6 dividers with tabs

Course Description & 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. This course focuses on an intuitive development of geometric ideas including 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.

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 & 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

Course Expectations/Policies

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, 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)
- * You are taking courses to become a teacher and should act accordingly. Any work submitted or activities completed in class should be “teacher quality.”

Another note on Professionalism

- **I expect professional, respectful behavior extended to everyone in the classroom.**
- As a member of a peer learning community, a high degree of professionalism is necessary. CWU expects every member of the university community to contribute to an inclusive and respectful classroom culture.
- **Please leave your phone in your bag during class time. Step out of the room if you have to use your phone during class.** Remember no phone calculators.
- High quality work and organization demonstrate professionalism. The work you do while you are learning to be a teacher should start to look like the work you will do as a teacher.

Attendance

You are expected to attend every session of the class. If you are absent from a test or other class assignments, you will receive a zero unless excused in advance by the instructor. 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. Extenuating circumstances such as illness or injury will be evaluated on a case- by- case basis but must be accompanied by a doctor’s note or an official form of documentation. **Please have supporting documentation available for review upon returning to class or you will not be allowed to make up the missed work.**

*The last day to add/drop the class is **September 27th, 2022.***

Grading Information

Grading

Your course grade will be determined as follows:

Activities 15%

Homework 15%

Weekly Quizzes 20%

Exams 15% each

Course Notebook (including course reflection) 10%

Final Exam 10%

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

Activities

Activities will be completed in class and turned in during class, in person. Activities will often be turned in the day after the activity to allow you to finish up any incomplete items.

Homework

Homework will be assigned weekly. Homework may include readings from the text, handouts from class sessions, and/or tasks assigned. All deadlines are final. Late work will not be accepted. If you know you will be absent, homework must be turned in **before** the due date. Homework will NOT be accepted over email. Be sure you turn in work as outlined for the task.

Weekly Quizzes

Each week of the quarter, you will have a quiz covering the topics of the week. Some quizzes will be in class and some will be assigned online through Canvas.

Exams

You will have two unit exams and a final. Make up exams will only be allowed in rare extenuating circumstances and only with documentation.

Course Notebook

Your course notebook should be kept organized and include ALL of the work and information covered in class. When in doubt, stick it in the notebook. Throughout the quarter, we will discuss organization of the notebook and you will be provided with a list of **required** items and notebook expectations.

Student Information & Resources

Academic Dishonesty

Students are expected to adhere to university student code of conduct regarding academic honesty. Any student who submits work that is suspected to be a product of academic dishonesty will have the opportunity to meet with the instructor to discuss the suspicion and confirm or deny the allegation. A formal Behavior of Concern report will be submitted to the Office of Student Rights and Responsibilities. In addition, depending on the severity of the allegation, a failing grade could be issued for either the assignment or the course.

Diversity

Central Washington University prides itself on the diversity of students who attend the university. Throughout the course, you will have the opportunity to work with students who have similarities and differences to you. It is important that you take every opportunity to embrace students who are similar to you and those who are different. We can learn a lot from each other if we take every opportunity to celebrate what makes us unique. It is expected that you will treat all students, teachers, and tutors with respect and enter into group situations and tasks with an open mind. No student will be discriminated against on the basis of race, ethnicity, age, creed, religion, gender, sexual orientation, marital status, or political ideology.

Student Support

Central Washington University has many resources to help you and enhance your experience here, while looking out for your well-being and aiding in your success.

A complete list of resources is available at [this website](#).

Accessibility and Accommodations

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.

Sexual Misconduct

“Central Washington University is committed to providing all community members with a learning and work environment that is free from sexual harassment and assault. Students have options for getting help if they have experienced sexual assault, relationship violence, and sexual harassment, or stalking. Information can be found at <http://www.cwu.edu/wecare> and in CWUP 2-35-050: Sexual Harassment. Faculty are required to report information regarding sexual misconduct or related crimes. Students may speak to someone confidentially by contacting the CWU Wellness Center, 509-963-3213, or the CWU Student Counseling Clinic, 509-963-1391.”

Math 226 Geometry Winter Quarter Calendar

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

January 2023						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jan. 1	2	3	4 First Day of Classes!! What is Geo? Grade level prog	5 Geometry Basics VH Levels VH Self-Assess	6	7
8	9 Geometry Basics A2 Shape Sort AI, HWI Due	10 A3 Spatial Sense A4 Definitions	11 A5 Testing Geo Principles	12 A 2, 3, 4, 5 Due Week 1 Quiz	13	14
15	16 NO CLASS Martin Luther King Jr Day	17 Angles	18	19 Quiz	20	21
22	23 Polygons	24	25	26 Quiz	27	28
29	30 Polygon Angles & Circles	31				

February 2023						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Exam 1	3	4
5	6 Transformations	7	8	9 Quiz	10	11
12	13 Polyhedra	14	15 Euler's Law & Measurement	16 Quiz Quiz	17	18
19	20 NO CLASS Presidents Day!	21 Pythagorean Theorem	22	23 Quiz	24	25
26	27 Perimeter & Area	28				

March 2023						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Exam 2	3	4
5	6 Volume	7	8	9 Quiz	10	11
12	13 FINALS WEEK: NO CLASS STUDY DAY!	14	15	16	17	18

