

**DEPARTMENT OF MATHEMATICS  
COLLEGE OF THE SCIENCES  
CENTRAL WASHINGTON UNIVERSITY  
COURSE SYLLABUS Winter2018**

1. **MATH 226**

<u>Course Number</u>	<u>TIME/DAY</u>	<u>BLDG/ ROOM</u>	<u>INSTRUCTOR</u>
16031	2:00-2:50 MTWH	Hertz 120	Dr. Janet Shiver

2. **Textbook and Materials:**

- Supplies necessary for the successful completion of this course include: colored pencils, calculator, 3 ring binder, compass, protractor, and ruler.

3. **Office Hours and Phone Numbers:**

Office: Bouillon 107E

Phone: 963-2834

Email: [shiverj@cwu.edu](mailto:shiverj@cwu.edu)

Office hours: 9:00 – 10:00

4. **Course Description:** This course is designed for students who plan to teach at the elementary or middle grades level 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

- Express mathematical ideas orally and in writing
- Make and test conjectures, write simple proofs
- Formulate counterexamples
- Create and explain constructions
- 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
- Explain and use the concepts of similarity and congruence and apply them to real world problems

- Identify and create basic geometric transformations
- Identify and explain different types of symmetries

5. **Course Expectations:** Students will be expected to complete all assigned problems and projects on time (at the beginning of class), keep a well-organized notebook, and to seek outside assistance when difficulties are encountered. Take home assignments will be accepted up to one day late but 20 points will be deducted from the grade received on the assignment for any late work. All assignments should be NEATLY written **in pencil** and all supporting work must be shown.
6. **Absence Policy:** Regular attendance is essential for successful completion of this course. A student absent from a test or other class assignment will be given a **zero** unless excused in advance by the instructor. 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**. Please have supporting documentation available for review upon returning to class or you will not be allowed to make up the missed work. *More than 4 absences from this class may result in a grade of F for the semester.*
7. **Grading Policy:** The course grade will be determined as follows:  
 2 Unit Tests = 20% each  
 Quizzes = 20%  
 Average of Homework/ notebook/labs /projects/ etc = 15%  
 Attendance = 5% (0-1 absences – 100, 2 absence – 90, 3 absences – 80, etc.)  
 Final Exam = 20%

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93-100%	90-92%	87-89%	83-86%	80-82%	77-79%	72-76%	70-72%	67-69%	63-66%	60-62%	<60%

8. **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 take-home assignments and quizzes. During in-class quizzes and tests all work will be done individually. All written work submitted in this course must properly document all 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.
9. **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.

10. **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.

<b>Week of</b>	<b>Topic</b>	<b>Notes</b>
January 2nd	Geometry Basics	
January 8 <sup>th</sup>	Angles / Two dimensional figures	Quiz 1
January 15 <sup>th</sup>	Two dimensional figures/ Symmetry	<b>No class on January 15</b>
January 22	Transformations	<b>Test 1</b>
January 29	Constructions	
February 5	Pythagorean Theorem Three Dimensional Figures	Quiz 2
February 12	Systems of Measurement	
February 19	Perimeter, Circumference Area and Surface Area	<b>No class on February 19 or 20 Test 2</b>
February 26	Volume	Quiz 3
March 5	Similarity and Congruence	
March 16	Final Exam	12:00 – 2:00

11. **FIRE!!** In the event of a fire alarm signal, students will exit the building in a quick and orderly manner through the nearest hallway exit and gather in an assigned area outside the building. Learn the floor plan and exits of this building. Do not use elevators. Crawl on the floor if you encounter heavy smoke. Assist disabled persons and others if possible without endangering your own life.
12. **Electronic Devices Policy:** *It is common courtesy to turn all electronic devices to "off" or "silent" mode when entering the library, classrooms and auditoriums.* Please adhere to this policy. All cell phones should be kept out of site during the class. Please be sure they are placed in a pocket, purse, or backpack so they will not present a temptation during class time. Yes, I can see you texting under the table so please don't have them out.