University of North Texas at Dallas
Spring 2024
Course Syllabus

MATH 1353-0002 Geometry and Measurement for Teachers	
Department: Mathematics	**School:** Liberal Arts and Life Sciences
Instructor Name	Dr. Gwendolyn Johnson
Office Location and Phone	DAL 1 room 201R 972-338-1320
Email Address	Gwendolyn.johnson@untdallas.edu You can send me a message through Canvas, but I will get back to you more quickly if you use the untdallas email. **When you email me, please state which class you are in.**
Office Hours (in person)	Mondays and Wednesdays noon to 1:00 Tuesdays and Thursdays 11:00 to noon You can visit me in DAL 1 room 201R or request a Zoom session during these hours.
Office Hours (Zoom)	Fridays: noon to 4:00 Please email me a few hours ahead of time to request a Zoom session.
Class Meeting Days, Times, and Location	Mondays and Wednesdays from 10:00 to 11:20 Founders Hall room 306
Course Description	This class will cover definitions and characteristics of two-dimensional shapes, angle relationships, area, perimeter, circumference, the coordinate plane, measurement (customary and metric), and volume and surface area of three-dimensional figures.
Required Textbook	None
Prerequisites	TSI Math complete or MATH 1010 with a grade of C or better
Learning Resources	Canvas Support Hotline • 833-668-8634 UNT Dallas Learning Commons • http://www.untdallas.edu/ml • Free math tutoring and homework help UNT Dallas School of Education • www.untdallas.edu/soe

Grade Determination

In this course, the following assessments will be used to determine student grades.

Assessment	Points
Attendance	50
8 Quizzes	320
Midterm Exam	80
Final Exam	100
Total	**550**

A = 90% or better B = 80 – 89% C = 70 – 79% D = 60 – 69% F = below 60%

Class Policies

Attendance

The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at https://www.untdallas.edu/hr/upol. Absences will be excused for these reasons:

1. Religious holy day
2. Active miliary service
3. Pregnancy or childbirth as long as the student's doctor deems the absence medically necessary

Quizzes

Calculators will NOT be allowed on quizzes. Make-up quizzes need to be taken in the UNT Dallas Testing Center. **Each student may make up no more than two quizzes during the semester. If you are absent for more than two quizzes, you will receive a zero on any quiz past the two you can make up.**

Exams

Calculators will NOT be allowed on the midterm or final exam. If you are more than 20 minutes late to the midterm or 30 minutes late to the final exam, you will not be able to take the exam at that time. You will need to schedule a make-up exam with UNT Dallas Testing Services.

Learning Objectives

1. Apply fundamental terms of geometry such as points, lines, and planes to describe two-dimensional and three-dimensional figures.
2. Make and test conjectures about figures and geometric relationships.
3. Use a variety of methods to identify and justify congruency and similarity of geometric objects.
4. Perform geometric transformations.
5. Perform measurement processes and explain the concept of a unit of measurement.
6. Develop and use formulas for the perimeter, area, and volume for a variety of figures.

Course Outline

This schedule is subject to change by the instructor.
Any changes to this schedule will be communicated via Canvas.

Date	In-class Topics and Quiz	Homework
Wednesday January 17	Grade 3 STAAR questions on Perimeter Grade 3 STAAR questions on Area Grade 4 Find the Perimeter and Area	
Monday January 22	Grade 5 Formulas for Area and Perimeter Grade 5 STAAR questions on Area Activity: Perimeter Misconceptions	Grade 4 Module 12 Assessment
Wednesday January 24	Grade 4 Lines, Rays, and Angles **Quiz 1: Perimeter and Area**	
Monday January 29	Grade 4 Classify Triangles Grade 5 Polygons Grade 5 Triangles	
Wednesday January 31	Grade 4 Parallel and Perpendicular Lines Grade 4 STAAR questions Transformations Activity: Sort polygons by angles and sides	
Monday February 5	Grade 4 Classify Quadrilaterals Grade 4 Line Symmetry **Quiz 2: Lines, Angles, Triangles, Transformations**	Grade 4 Module 13 Assessment
Wednesday February 7	No class – finish Module 13 Assessment	
Monday February 12	Grade 4 Measure and Draw Angles Grade 4 Join and Separate Angles Grade 4 STAAR Questions on Measuring Angles	Grade 4 Module 14 Assessment
Wednesday February 14	Grade 4 Measurement Benchmarks Grade 4 Customary Units of Length **Quiz 3: Quadrilaterals, Symmetry, Measure Angles**	
Monday February 19	Grade 4 Customary Units of Weight Grade 4 Customary Units of Liquid Volume	
Wednesday February 21	Grade 4 Metric Units of Length and Mass Grade 4 STAAR questions on Temperature and Time	
Monday February 26	Grade 4 Metric Units of Liquid Volume Grade 4 Elapsed Time **Quiz 4: Grade 4 Measurement**	Grade 4 Module 15 Assessment
Wednesday February 28	**Midterm Exam**	
Monday March 4	Grade 5 Quadrilaterals	Grade 5 Module 11 Assessment
Wednesday March 6	Grade 5 Volume	Grade 5 Module 12 Assessment
March 11-15	Spring Break	
Monday March 18	Grade 5 Customary Measurement **Quiz 5: Quadrilaterals and Volume**	

Wednesday March 20	Grade 5 Metric Measurement Grade 7 Converting Between Measurement Systems	Grade 5 Module 13 Assessment
Monday March 25	Grade 6 Angles, Triangles, and Equations **Quiz 6: Grades 5-7 Measurement**	Ready to Go On? Angles, Triangles
Wednesday March 27	Grade 6 Area of Quadrilaterals Grade 6 Area of Triangles	
Monday April 1	Grade 6 Solving Area Equations Grade 6 Solving Volume Equations	Ready to Go On? Area and Volume
Wednesday April 3	Grade 7 Similar Figures	
Monday April 8	Grade 7 Ratios and Pi **Quiz 7: Area, Volume, and Similar Figures**	Ready to Go On? Proportionality in Geometry
Wednesday April 10	Grade 7 Angle Relationships Grade 7 Finding Circumference	
Monday April 15	Grade 7 Area of Circles and Composite Figures Grade 7 Volume of Rectangular Prisms and Pyramids	Ready To Go On? Applications of Geometry
Wednesday April 17	Faces, Edges, Vertices, and Nets of Three-D Figures	
Monday April 22	Grade 7 Volume of Triangular Prisms and Pyramids Grade 7 Lateral and Total Surface Area	
Wednesday April 24	Grade 8 Parallel Lines Cut by a Transversal **Quiz 8: Grade 7 Geometry**	Ready To Go On? Volume and SA
Monday April 29	Grade 8 The Pythagorean Theorem	
Wednesday May 1	Grade 8 Volume of Cylinders Grade 8 Algebraic Representations of Transformations	
Monday May 6	**Final Exam**	

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University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas at Dallas makes reasonable academic accommodations for students with disabilities. Students seeking accommodations must first register with the Disabilities Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delays in implementation. Note that a student must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letter during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu on the first floor of the Student Center.

Canvas Instructure Accessibility Statement:

University of North Texas at Dallas is committed to ensuring that online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. The Canvas Instructure Accessibility Statement is provided at https://www.canvaslms.com/accessibility.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will

be handled in accordance with the University's policies and procedures. Refer to the UNT Dallas Academic Integrity Policy in the appropriate Catalog at http://dallascatalog.unt.edu.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection*:* Please be aware in some courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student's Rights, Responsibilities, and Conduct will be referred to the Dean of Students as the instructor deems appropriate (UNTD Policy 7.001 found at **https://www.untdallas.edu/hr/upol**).

Classroom Disruption:
Students are expected to engage with the instructor and other students in this class in a respectful and civil manner at all times to promote a classroom environment that is conducive to teaching and learning. Students who engage in disruptive behavior will be directed to leave the classroom. A student who is directed to leave class due to disruptive behavior is not permitted to return to class until the student meets with a representative from the Dean of Students Office. It is the student's responsibility to meet with the Dean of Students before class meets again and to provide the instructor confirmation of the meeting. A student who is directed to leave class will be assigned an unexcused absent for that class period and any other classes the student misses as a result of not meeting with the Dean of Students. The student is responsible for material missed during all absences and the instructor is not responsible for providing missed material. In addition, the student will be assigned a failing grade for assignments, quizzes or examinations missed and will not be allowed to make up the work.
The Code of Student's Rights, Responsibilities, and Conduct **(UNTD Policy 7.001 found at** https://www.untdallas.edu/hr/upol**)** describes disruption as the obstructing or interfering with university functions or activity, including any behavior that interferes with students, faculty, or staff access to an appropriate educational environment. Examples of disruptive behavior that may result in a student being directed to leave the classroom include but are not limited to: failure to comply with reasonable directive of University officials, action or combination of actions that unreasonably interfere with, hinder, obstruct, or prevents the right of others to freely participate, threatening, assaulting, or causing harm to oneself or to another, uttering any words or performing any acts that cause physical injury, or threaten any individual, or interfere with any individual's rightful actions, and harassment. You are encouraged to read the Code of Student's Rights, Responsibilities, and Conduct for more information related to behaviors that could be considered disruptive.

Course Evaluations:
Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester via your campus email, providing you a chance to comment on how this class is taught. I will not have access to the results of the evaluations until after final grades have posted. I am very interested in the feedback I get from students, as I work to

continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Bad Weather Policy:

Campus facilities will close and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information please refer to http://www.untdallas.edu/police/resources/notifications.