University of North Texas at Dallas
Fall 2024
Course Syllabus

MATH 1353-0001 Geometry and Measurement for Teachers	
Department: Mathematics	**School:** Liberal Arts and Life Sciences
Instructor Name	Dr. 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.
Office Hours (in person)	Tuesdays and Thursdays 11:30 to 1:00 and 2:30 to 3:00 You can visit me in DAL 1 room 201R or request a Zoom session during these hours.
Office Hours (Zoom)	Mondays and Wednesdays 10:00 to noon Please email me at least an hour ahead of time to request a Zoom session. I am also available at other times; let me know what works for you.
Class Meeting Days and Times	Tuesdays and Thursdays 1:00 to 2:20
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	20
6 Quizzes (50 points each)	300
Midterm Exam	80
Final Exam	100
Total	**500**

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

Class Policies

Attendance

If you are sick, please do NOT come to class. The instructor can adjust your attendance grade at her discretion, if necessary.

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

Arriving late or leaving early may affect your attendance grade. Signing the Sign-In sheet does not guarantee that you will receive attendance points for the day.

Quizzes

Calculators will NOT be allowed on quizzes. **Each quiz must be taken in class on the day it is scheduled. Make-up quizzes will NOT be given.** If you are sick, please do NOT come to class. The instructor can drop a quiz grade at her discretion, if necessary.

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. A make-up midterm exam must be taken within one week of the originally-scheduled date. A make-up final exam must be taken by the end of final exam week.

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 (not graded)
Tuesday August 27	Grade 4 Find and Draw Lines of Symmetry Grade 4 Measurement, including temperature, time, and using a protractor to measure angles	Read 10 Big Math Ideas by Marilyn Burns (in Canvas)
Thursday August 29	Transformations (reflections, rotations, translations) Class Activity: Rotations – Please bring scissors to class Grade 5 Area and Perimeter	
Tuesday September 3	Grade 4 Module 15 Assessment and Unit 4 Assessment	
Thursday September 5	Grade 5 Formulas for Area, Perimeter, and Volume **Quiz 1**	Grade 5 Module 9 Assessment
Tuesday September 10	Grade 5 Two-Dimensional Figures	Grade 5 Module 11 Assessment
Thursday September 12	Grade 5 Volume Grade 5 Graphing	Grade 5 Modules 12 and 14 Assessments
Tuesday September 17	Grade 5 Measurement **Quiz 2**	Grade 5 Module 13 Assessment
Thursday September 19	Grade 6 Determining When Three Lengths Form a Triangle	
Tuesday September 24	Grade 6 Sum of Angle Measures in Triangles and Quadrilaterals Relationships Between Sides and Angles in a Triangle	Ready to Go On? Angles, Triangles, and Equations
Thursday September 26	**Quiz 3**	
Tuesday October 1	Grade 6 Area of Parallelograms and Trapezoids	
Thursday October 3	Grade 6 Area of Triangles	
Tuesday October 8	Midterm Exam Review	
Thursday October 10	**Midterm Exam**	

Tuesday October 15	Grade 6 Solving Area and Volume Equations	Ready to Go On? Area and Volume
Thursday October 17	What are similar figures? Corresponding sides and angles Methods of solving proportions	
Tuesday October 22	Using Proportions to Solve Similar-Figures Problems	
Thursday October 24	Review for Quiz 4 **Quiz 4**	
Tuesday October 29	Circles: radius, diameter, chords, secants, central angles What is the definition of pi? Grade 7 Finding Circumference	Ready to Go On? Proportionality in Geometry
Thursday October 31	Grade 7 Angle Relationships Grade 7 Area of Circles and Composite Figures	Ready to Go On? Applications of Geometry Concepts
Tuesday November 5	Grade 7 Volume of Rectangular Prisms and Pyramids Review for Quiz 5	
Thursday November 7	**Quiz 5**	
Tuesday November 12	Grade 7 Volume of Triangular Prisms and Pyramids	
Thursday November 14	Grade 7 Total Surface Area	
Tuesday November 19	Grade 8 Parallel Lines Cut by a Transversal	
Thursday November 21	**Quiz 6**	
Tuesday November 26	Grade 8 Angle Theorems for Triangles	Ready to Go On? Angle Relationships
Thursday November 28	No class due to Thanksgiving	
Tuesday December 3	Grade 8 The Pythagorean Theorem	Ready to Go On? The Pythagorean Theorem
Thursday December 5	Grade 8 Volume of Cylinders Grade 8 Algebraic Representations of Translations	
Final Exam Week	**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.