

# University of North Texas at Dallas

Spring 2025

## SYLLABUS

### MATH 1353 Geometry and Measurement for Teachers 3 credit hours

<b>Department of</b>	Mathematics
<b>Instructor Name</b>	Dr. Johnson
<b>Office Location</b>	DAL 1 room 201 R
<b>Office Phone</b>	972-338-1320
<b>Email Address</b>	<a href="mailto:Gwendolyn.johnson@untdallas.edu">Gwendolyn.johnson@untdallas.edu</a>
<b>Office Hours</b>	Mondays, Tuesdays, Wednesdays, and Thursdays 11:30 to 12:45 and 2:30 to 3:15
<b>Virtual Office Hours</b>	By appointment
<b>Course Format/Structure</b>	Face to Face
<b>Classroom Location</b>	DAL 1 room 204
<b>Class Meeting Days &amp; Times</b>	Tuesdays and Thursdays 1:00 to 2:20
<b>Course Catalog Description</b>	Basic geometry; the coordinate plane; Pythagorean Theorem; distance formula; polygons; circles; regular polyhedral; congruence and similarity; constructions; transformations; symmetry; tessellations; perimeter; area; surface area; volume; history of math as it related to geometry; discussion of the geometry curriculum in elementary grades
<b>Prerequisites</b>	TSI Math-complete or MATH 1010 with a grade of C or better
<b>Corequisites</b>	None
<b>Required Reading</b>	None
<b>Recommended Reading &amp; References</b>	Will be posted in Canvas
<b>Access to Learning Resources</b>	<b>UNT Dallas Library:</b> Phone: (972) 338-1616; Website URL: <a href="http://www.untdallas.edu/library">http://www.untdallas.edu/library</a> <b>UNT Dallas Bookstore:</b> Phone: (972) 780-3652; Website URL: <a href="http://www.untdallas.edu/bookstore">http://www.untdallas.edu/bookstore</a> Email: <a href="mailto:untdallas@bkstr.com">untdallas@bkstr.com</a>

<p><b>Canvas Resources</b></p> <p><b>Supported Browsers:</b></p> <ul style="list-style-type: none"> <li>• Chrome</li> </ul> <p><b>Supported Devices:</b></p> <ul style="list-style-type: none"> <li>• iPhone</li> <li>• Android</li> <li>• Chromebook</li> </ul> <p><i>Note: Tablet users can use the Canvas app</i></p> <p><b>Screen Readers:</b></p> <ul style="list-style-type: none"> <li>• VoiceOver (Safari)</li> <li>• JAWS (Internet Explorer)</li> <li>• NVDA (Firefox)</li> </ul> <p><i>Note: There is no screen reader support for Canvas in Chrome</i></p>	<p><b>Getting Help with Canvas:</b></p> <p><b>Canvas 24/7 Phone Support for Students: 1-833-668-8634</b></p> <p><b>Canvas Help Resources:</b></p> <p><b>Canvas Student Guide -</b>  <a href="https://community.canvaslms.com/docs/DOC-10701">https://community.canvaslms.com/docs/DOC-10701</a></p> <p>For additional assistance, contact UNT Dallas Distance Learning:  DAL1, Room 157  Email: <a href="mailto:distancelearning@untdallas.edu">distancelearning@untdallas.edu</a></p> <p><b>If you are working with Canvas 24/7 Support to resolve a technical issue, please keep me updated on the troubleshooting progress.</b></p> <p><b>If you have a course-related issue (e.g., course content, assignment trouble, quiz difficulties), please contact me during office hours or by email.</b></p>
--	---

## Course Overview

### Course Goals/Overview:

The goal of this course is to review the geometry and measurement concepts taught in Grades 4 to 8 and to help prepare students for the math portion of the EC-6 Core Subjects test.

### Learning Objectives/Outcomes:

At the end of this course, the student will

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 and Discussion Topics

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

Date	Topic	In-Class Assessment
January 14	Grade 4 Geometry Concepts	Grade 4 Module 13 Assessment
January 16	Grade 4 Measure Angles	Grade 4 Module 14 Assessment
January 21	Grade 4 Customary and Metric Measurement	Grade 4 Module 15 Assessment
January 23	Grade 4 Elapsed Time and Transformations	Grade 4 Unit 4 Assessment
January 28	Grade 5 Formulas for Area, Perimeter, and Volume	Grade 5 Module 9 Assessment
January 30	Grade 5 Two-Dimensional Figures	Grade 5 Module 11 Assessment
February 4	Grade 5 Volume	Grade 5 Module 12 Assessment
February 6	Grade 5 Convert Units of Measure	Grade 5 Module 13 Assessment
February 11	Grade 5 Graphing	Grade 5 Unit 4 Assessment
February 13	<b>Test 1</b>	
February 18	Grade 6 Angles, Triangles, and Equations	Ready to Go On? & Texas Test Prep
February 20	Grade 6 Area and Volume Equations	Ready to Go On? & Texas Test Prep Grade 6 Unit 5 Texas Test Prep
February 25	Grade 7 Similar Shapes and Scale Drawings	Activity: Investig. Similar Rectangles
February 27	Grade 7 Ratios and Pi	Ready to Go On? & Texas Test Prep Grade 7 Unit 2 Texas Test Prep
March 4	Grade 7 Angle Relationships Grade 8 Parallel Lines Cut by a Transversal Grade 8 Angle Theorems for Triangles	10.1 Exercises from Larson & Silbey
March 6	<b>Midterm Exam</b>	
March 10-14	Spring Break	
March 18	Grade 7 Area, Circumference of Circles, Composite Figures	Ready to Go On? & Texas Test Prep
March 20	Polyhedra Section 10.4 from Larson & Silbey	10.4 Exercises from Larson & Silbey
March 25	Volume of Prisms and Cylinders	STAAR questions
March 27	Volume of Pyramids and Cones	11.4 Exercises from Larson & Silbey
April 1	Lateral and Total Surface Area	Ready to Go On? & Texas Test Prep Grade 7 Unit 5 Texas Test Prep
April 3	Congruence of Triangles Section 13.1 from Larson & Silbey	13.1 Exercises from Larson & Silbey
April 8	Angle-Angle Similarity	Ready to Go On? & Texas Test Prep
April 10	<b>Test 2</b>	
April 15	The Pythagorean Theorem and its Converse Distance Between Two Points	Ready to Go On? & Texas Test Prep
April 17	Volume of Spheres	Ready to Go On? & Texas Test Prep
April 22	Surface Area of Cylinders	Ready to Go On? & Texas Test Prep Grade 8 Unit 3 Texas Test Prep
April 24	Transformations and Congruence	Ready to Go On? & Texas Test Prep
April 29	Dilations, Similarity, and Proportionality	Ready to Go On? & Texas Test Prep Grade 8 Unit 5 Texas Test Prep
May 1	Construction Techniques Section 13.3 from Larson & Silbey	13.3 Exercises from Larson & Silbey
May 6	<b>Final Exam</b>	

## Course Evaluation Methods

### Grading Matrix:

Instrument	Value (points or percentages)	Total
Attendance and Participation		40
In-Class Assessments	25 assessments at 4 points each	100
Tests	2 tests at 70 points each	140
Midterm Exam	70	70
Final Exam	100	100
<b>Total</b>		<b>450</b>

### Grade Determination:

A = 90% or better

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = less than 60%

Need tutoring services or just some help with a particular assignment? For tutoring that empowers students to achieve success, schedule an appointment with the Learning Commons today at <https://www.untDallas.edu/learning/schedule-appointment/>.

## Course-Specific Policies

### Attendance and Participation Policy:

The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at <https://untsystem.policytech.com/dotNet/documents/?docid=1347&public=true>.

Attendance is important, but please do not come to class if you are sick. If you are coughing or sneezing or if you do not feel good, please do not come to class. Please let the instructor know via email or Canvas message if you are going to miss class for any reason.

### Assignment Policy:

To receive full credit, you must complete the In-class Assessment during class on the due date. If you miss class, you can complete it on your own but will receive a maximum of 3 out of 4 points. Because there are more than 25 assessments, you can miss a couple and still receive the maximum number of points.

**Exam Policy:**

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Policy 7.005 Student Attendance at <https://www.untDallas.edu/hr/upol>). If you arrive more than 20 minutes past the start date of the exam, you will need to take a make-up exam with UNTD Testing Services. The final exam will cover material from the entire semester.

**Other Course Specific Policies:**

Please check Canvas at least once per week for Announcements.

Please turn your phone's ringer off during class. Spending inappropriate amounts of time looking at a phone, tablet, or computer screen will affect your attendance/participation grade.

You are welcome to eat and drink during class. Please make sure any trash is properly disposed of.

**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 accommodation 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 accommodation 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 letters 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 [UNTDisability@untDallas.edu](mailto:UNTDisability@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>.

**NOTE:** Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

**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.

**Classroom etiquette:**

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of 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://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true>).

**Classroom Disruption:**

Students are expected to always engage with the instructor and other students in this class in a respectful and civil manner 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 absence for that class period and any other classes the student misses because 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://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true>) 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 evaluations of teaching effectiveness are 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 (as the instructor) will not have access to the results of the evaluations until after final grades have been 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.

#### **Sexual Harassment, Sexual Misconduct, Intimate Partner Violence and Stalking**

UNT Dallas is committed to creating a safe learning environment for all members of our community, free from gender and sex-based discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking, in accordance with Title IX, Texas laws and University Policies. Please note that all employees are mandated reporters and must report all instances of sexual misconduct, dating violence, sexual assault, domestic violence and stalking to the Title IX Coordinator. If you or someone you know has experienced any form of sex or gender-based discrimination or violence and wish to speak to the Title IX Coordinator, you can email them at [titleix@untdallas.edu](mailto:titleix@untdallas.edu) or file a report [here](#).

#### **Pregnancy, Pregnancy Related Conditions and Parenting Modifications Under Title IX**

**UNT Dallas** is committed to compliance with Title IX, and to supporting the academic success of pregnant and parenting students and students with pregnancy related conditions. If you are a pregnant, have pregnant related conditions or a parenting student (child under one-year needs documented medical care) who wishes to request reasonable related modifications from the University under Title IX, please email the Title IX Coordinator at [titleix@untdallas.edu](mailto:titleix@untdallas.edu). The Title IX Coordinator will work with your professors and academic unit to provide reasonable modifications needed to be supportive of your education while pregnant or as a parent under Title IX.

#### **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>.

#### **Inclement Weather and Online Classes:**

Online classes may or may not be affected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

**Technology Assistance:** To successfully access the materials in Canvas, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you have trouble accessing or using components of the course, try using Google Chrome browser. If you still experience technical difficulties, first, notify your instructor.

If the problem is still not resolved, call Distance Learning at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups.

For more information see:

- UNT Dallas Canvas Technical Requirements: <https://community.canvaslms.com/docs/DOC-10721>
- Canvas Instructure Support & Unsupported Operating Systems: <https://community.canvaslms.com/docs/DOC-10720>