University of North Texas at Dallas
Spring 2017
SYLLABUS

| Department of | Mathematics | School of | Liberal Arts and Life Sciences |

Instructor Name: Dr. Gwen Johnson
Office Location: Founders Hall room 232
Office Phone: 972-338-1320
Email Address: Gwendolyn.johnson@untdallas.edu

Office Hours: Mondays and Wednesdays 11:30 to 1:00 and 2:30 to 3:30 (I can stay later if needed.)
Thursdays 1:00 to 2:30 and 4:00 to 5:30
Other hours available by appointment
Tuesdays and Fridays by appointment

Classroom Location: 
Class Meeting Days & Times: Tuesdays 5:30 to 6:50 and online

Course Catalog Description: Basic geometry; the coordinate plane; Pythagorean Theorem; distance formula; polygons; circles; regular polyhedra; congruence and similarity, constructions; transformations; symmetry; tessellations; Perimeter; area; surface area; volume, history of math as it relates to geometry, discussion on the geometry curriculum in elementary grades.

Prerequisites: TSI Math-complete or Math 1010 with a grade of C or better
Required Text: There is no textbook for this class. All materials will be posted in Blackboard.

Access to Learning Resources: UNT Dallas Library:
phone: (972) 780-1616
web: http://www.untdallas.edu/library
email: library@untdallas.edu
Distance Learning and Instructional Technology
Location: Founders Hall (Building 2) room 122
Phone: 972-338-5580
Email: UNTDDistance@unt.edu

Course Goals or Overview: The goals of this course are as follows -
1. To prepare teacher candidates for the mathematics portion of the TExES EC-6 Core Subjects test
2. To equip teacher candidates with the mathematics content knowledge needed to teach elementary school.

Learning Objectives/Outcomes: At the end of this course, students will be able to:
1. Describe the meanings of basic geometric terms such as parallel lines, perpendicular lines, acute, right, and obtuse angles, etc.
2. Describe the types of and properties of two-dimensional shapes such as triangles, quadrilaterals, pentagons, and hexagons.
3. Answer questions and solve problems related to the measurement of two-dimensional shapes including perimeter, circumference, area of basic and composite shapes, the Pythagorean Theorem, similar figures.
4. Answer questions and solve problems related to three-dimensional shapes, surface area, and volume.
Hybrid Course Outline
This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Blackboard announcement. Additional readings and activities may be added.

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Topic</th>
<th>In Class</th>
<th>On Your Own</th>
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</thead>
<tbody>
<tr>
<td>Jan 17-20</td>
<td>Lines, Angles, and Polygons</td>
<td>PowerPoint 1A: Polygons and Their Angles</td>
<td>PowerPoint 1B: Lines and Angles Practice 1A and 1B</td>
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<tr>
<td>Jan 24-27</td>
<td>Triangles, including the Triangle Inequality, and Quadrilaterals</td>
<td>PowerPoint 1C: Quadrilaterals Group Activity: Quadrilaterals</td>
<td>PowerPoint 1D: Triangles incl. Tri. In. Practice 1C and 1D</td>
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<tr>
<td>Jan 31-Feb 3</td>
<td>Similar Figures and Scale Drawings</td>
<td>PowerPoint 1E: Similar Figures Group Activity</td>
<td>Homework #1 due Feb 3</td>
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<tr>
<td>Feb 7-10</td>
<td></td>
<td>Test #1</td>
<td>PowerPoint 2A: Perimeter Practice 2A</td>
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<tr>
<td>Feb 14-17</td>
<td>Area and Perimeter</td>
<td>PowerPoint 2B: Area Group Activities:</td>
<td>PowerPoint 2C: Circles and Circumference Practice 2B and 2C</td>
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<td></td>
<td></td>
<td>- What kind of number is the perimeter?</td>
<td>Practice 2D Online assignment on the Coord. Plane</td>
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<tr>
<td>Feb 21-24</td>
<td>Circles and Nonstandard Shapes</td>
<td>PowerPoint 2D: Circles and Nonst. Shapes Group Activity</td>
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<tr>
<td>Feb 28-Mar 3</td>
<td>The Coordinate Plane</td>
<td>PowerPoint 2E: The Coordinate Plane</td>
<td>Homework #2 due March 3</td>
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<tr>
<td>March 7-10</td>
<td></td>
<td>Test #2</td>
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<td>March 14-18</td>
<td>Spring Break</td>
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<td>March 21-24</td>
<td>Transformations and Symmetry</td>
<td>PowerPoint 3A: Transformations Group Activity: Reflections and Their Rules</td>
<td>Practice 3A Online assignment on Capacity</td>
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<tr>
<td>March 28-31</td>
<td>Measurement and the Pythagorean Theorem</td>
<td>PowerPoint 3B: Measurement</td>
<td>PowerPoint 3C: The Pythagorean Thrm Homework #3 due March 31</td>
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<tr>
<td>April 4-7</td>
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<td>Test #3</td>
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<tr>
<td>April 11-14</td>
<td>Three-dimensional Figures</td>
<td>PowerPoint 4A: Three-dimensional Figures</td>
<td>Practice 4A</td>
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<tr>
<td>April 18-21</td>
<td>Volume and Surface Area</td>
<td>PowerPoint 4B: Volume and Surface Area</td>
<td>Homework #3 due April 21</td>
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<td>April 25-28</td>
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<td>Test #4</td>
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<tr>
<td>May 2-5</td>
<td>Review</td>
<td></td>
<td>Review for the Final Exam</td>
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<td>May 9</td>
<td>No class – Reading Day</td>
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<tr>
<td>Finals Week</td>
<td>Comprehensive Final Exam</td>
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Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Grading Matrix:

<table>
<thead>
<tr>
<th>Activities/Assignments</th>
<th>Value (percentages)</th>
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<tbody>
<tr>
<td>Four Tests</td>
<td>55%</td>
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<tr>
<td>Four Homework Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Attendance and Group Activities</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15%</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
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Grade Determination

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

Course Policies

Attendance

Missing class for any reason will affect your attendance grade. There is no such thing as an “excused” absence. You do NOT need to bring doctor’s notes. Arriving late or leaving early will affect your attendance grade. If you will be arriving late or leaving early on a regular basis, please let the instructor know the reason.

Blackboard

You are expected to use Blackboard to check announcements, participate in discussions, check your grades, download documents, and upload your homework. If you need help using Blackboard, please ask the instructor or call the Helpdesk at 972-338-5580.

Grades on Tests and Homework

Tests are usually graded within two business days. Homework is generally graded within one week. You can monitor your progress in the class by checking “My Grades” in Blackboard.

Group Activities

You will be expected to work in groups and to be an active and respective group member. If you miss class, you need to download the activity from Blackboard and turn it in before graded activities are passed back to the class. Once graded activities are passed back to the class, you lose the opportunity to receive credit for the group activity.

Late Homework

A late penalty will be assessed for work turned in after the due date. No work will be accepted after the final exam. Work will not be accepted more than two weeks after the due date.

Make-up Tests
If you must miss a test, please let the instructor know ahead of time. **You must take a make-up test within one week of the original test date.** The make-up test must be taken in one sitting. (You can’t leave and come back to finish later.)

**University Policies and Procedures**

**Students with Disabilities (ADA Compliance):**

Chapter 7(7.004) Disability Accommodations for Students

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability 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 delay in implementation. Note that students 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](http://www.untdallas.edu/disability). You may also contact them by phone at 972-338-1777; by email at UNTDisability@untdallas.edu or at Building 2, room 204.

**Blackboard Learn Accessibility Statement:**

University of North Texas at Dallas is committed to ensuring its 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. Blackboard Learn course management system’s accessibility statement is also provided: [http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx](http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx)

**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 using any of these tools.

**Course Evaluation Policy:**

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, providing you a chance to comment on how this class is taught. 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.

**Exam Policy:** All tests must be taken on campus (NOT online).

**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 Student Code of Academic Integrity at [http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf](http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf) for complete provisions of this code.

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 online or hybrid 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.

**Online Attendance and Participation:**

The University attendance policy is in effect for this course. Class attendance in the Blackboard classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency.

Attendance for this online or hybrid course is considered when you are logged in and active in Blackboard, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to [http://www.untdallas.edu/registrar](http://www.untdallas.edu/registrar) for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor’s discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.

**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.

**Online Netiquette:**

In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, Discussion Board messages and/or any other forms of written communication in the online environment should use proper “netiquette” (i.e., no writing in all caps (usually denotes yelling), no curse words, and no “flaming” messages (angry, personal attacks). Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.

Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University’s policies and procedures. Refer to the Student Code of Student Rights Responsibilities and Conduct at [http://www.untdallas.edu/osa/policies](http://www.untdallas.edu/osa/policies). Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

**Diversity/Tolerance Policy:**

Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. 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 Conduct will be referred to the Dean of Students as the instructor deems appropriate.

**Technology Requirements:** In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements.

Blackboard Learn 9.1 is the platform software for this course. Blackboard Learn supports major web browsers such as Windows Internet Explorer, Apple Safari, Mozilla Firefox, and Google Chrome. However, since the latter two are updated continually, some recent versions may not be compatible. If you experience difficulty accessing or using components of the course, try using Internet Explorer. Also, no matter what browser you use, always enable pop-ups. For more information see:
- [link] http://www.untdallas.edu/dlit/ecampus/requirements
- [link] https://blackboard.secure.force.com/publickbarticleview?id=kAB700000008Oom
- [link] https://learn.unt.edu/bbcswebdav/institution/BrowserCheck/check_full.html