

UNIVERSITY OF NORTH TEXAS AT DALLAS
Spring 2017
COURSE SYLLABUS

MATH 1352 Algebra for Teachers 3 Credit Hours	
Department: Mathematics and Information Sciences	
Division: Liberal Arts and Life Sciences	
Instructor Name:	Dr. Gwendolyn Johnson
Office Location:	Bldg 2 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 noon to 2:30 and 4:00 to 5:30 Tuesdays and Fridays by appointment
Class Meeting Times:	Mondays and Wednesdays 1:00 to 2:20
Course Catalog Description:	Intended for individuals seeking EC-6 or Math 4-8 teaching certification. Problem solving, algebraic expressions and equations, patterns, arithmetic and geometric sequences, graphing linear and quadratic functions
Textbook:	none
Required Materials	Graphing calculator, graph paper, ruler
Prerequisites:	TSI-Math complete or MATH 1010 with a grade of C or better
Learning Resources:	Blackboard Learn: https://learn.unt.edu/ Assignments, grades, and PowerPoint presentations will be posted in Blackboard. Students are expected to use this resource. UNT Dallas Math Lab Building 1 room 336 Free math tutoring and homework help
Course Goals	The goals of this course are to: 1. Prepare students to pass the mathematics portion of the Core Subjects certification test. 2. Prepare students to teach mathematics in elementary or middle school.

Learning Objectives

1. Describe what a function is and identify aspects of functions such as domain and range, independent and dependent variables.
2. Simplify and solve expressions and equations. Use the distributive property and factoring to generate equivalent expressions and equations. Write and solve systems of linear equations.
3. Graph linear and quadratic functions and identify aspects of graphs such as intercepts, rate of change, and axis of symmetry.
4. Write equations that correspond to word problems; write word problems that correspond to equations.

Course Outline

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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 activities may be added.

Timeline	Topics	SLO	In-Class Activities	Assignments
Wednesday January 18	Functions	1	PowerPoint 1A: Using Mappings and Tables to Represent Functions	Practice 1A
Monday January 23	Functions	1	PowerPoint 1B: Using Sets of Ordered Pairs and Graphs to Represent Functions	Practice 1B
Wednesday January 25	Functions	1	PowerPoint 1C: Function Tables Group Activity: Function Tables	Practice 1C
Monday January 30	Functions	1	PowerPoint 1D: Match Equations & Tables Group Activity: Matching Equations	Practice 1D
Wednesday February 1	Functions	1	PowerPoint 1E: Dep. & Indep. Variables Group Activity: Defining Variables	Practice 1E
Monday February 6	Sequences	1	PowerPoint 1F: Domain and Range Group Activity	Practice 1F
Wednesday February 8		1	PowerPoint 1G: Sequences Group Activity	Homework #1 due Friday February 10
Monday Feb. 13			Test #1: Functions and Sequences	
Wednesday February 15	Expressions & Equations	2	PowerPoint 2A Group Activity	Practice 2A
Monday February 20	Expressions & Equations	2	PowerPoint 2B Group Activity	Practice 2B
Wednesday February 22	Expressions & Equations	2	PowerPoint 2C Group Activity	Practice 2C
Monday February 27	Inequalities	2	PowerPoint 2D Group Activity	Practice 2D
Wednesday March 1	FOIL and Factoring	2	PowerPoint 2E Group Activity	Practice 2E
Monday March 6	Systems of Equations	2	PowerPoint 2F Group Activity	Homework #2 due Tuesday March 7
Wednesday March 8		2	Test #2: Equations and Inequalities	
Spring Break: March 13-19				

Monday March 20	Graph Linear Functions	3	PowerPoint 3A Group Activity	Practice 3A
Wednesday March 22	Graph Linear Functions	3	PowerPoint 3B Group Activity	Practice 3B
Monday March 27	Graph Linear Functions	3	PowerPoint 3C Group Activity	Practice 3C
Wednesday March 29	Graph Linear Functions	3	PowerPoint 3D Group Activity	Practice 3D
Monday April 3	Graph Inequalities	3	PowerPoint 3E Group Activity	Practice 3E
Wednesday April 5	Graph Quadratics	3	PowerPoint 3F Group Activity	Homework #2 due Friday April 7
Monday April 10		3	Test #3: Graphing Linear & Quadratic Functions	
Wednesday April 12	Writing Equations	4	PowerPoint 4A Group Activity	Practice 4A
Monday April 17	Writing Equations	4	PowerPoint 4B Group Activity	Practice 4B
Wednesday April 19	Writing Equations	4	PowerPoint 4C Group Activity	Practice 4C
Monday April 24	Writing Equations	4	PowerPoint 4D Group Activity	Practice 4D
Wednesday April 26	Writing Equations	4	PowerPoint 4E Group Activity	Practice 4E
Monday May 1	Writing Equations	4	PowerPoint 4F Group Activity	Homework #2 due Tuesday April 29
Wednesday May 3		4	Test #4: Writing Equations to Match Story Problems	
Monday May 8	Review			
Final Exams start Wednesday May 10 – CHECK THE FINAL EXAM SCHEDULE				

Course Evaluation Methods

Instrument	Points
Four Tests	600
Final Exam	175
Homeworks	125
Group Activities	100
Total:	1,000

Grade Determination:

A = 90% or better

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = less than 60%

Course Policies

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 respectful 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.

University Policies and Procedures

Students with Disabilities (ADA Compliance): 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>. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Founders Hall, room 204. (UNTD Policy 7.004)

CoursEval 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.

Assignment Policy: According to the instructor's discretion while working in concert with the program's guidelines.

Exam Policy: Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

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 (Policy 7.002) at [http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.p](http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf)
[df](http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf)

Refer to the Student Code of Student Rights, Responsibilities and Conduct at [http://www.untdallas.edu/sites/default/files/page_level2/hds0041/pdf/7_001_student_code_of_conduct_may_2014](http://www.untdallas.edu/sites/default/files/page_level2/hds0041/pdf/7_001_student_code_of_conduct_may_2014.pdf)
[.pdf](http://www.untdallas.edu/sites/default/files/page_level2/hds0041/pdf/7_001_student_code_of_conduct_may_2014.pdf) 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.

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>

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at <http://www.untdallas.edu/hr/upol>

Diversity/Tolerance Policy: Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive and 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. (UNTD Policy 7.001)