

**University of North Texas at Dallas**  
**SYLLABUS (Spring 2021)**

<b>MATH 1100-030, College Algebra (3CR)</b>			
<b>Department of</b>	Mathematics and Information Sciences	<b>School of</b>	Liberal Arts and Sciences
<b>Instructor Name</b>	Vinod Arya		
<b>Office Location</b>	FH-226		
<b>Office Phone</b>	972-338-1375		
<b>Email Address</b>	Vinod.arya@untdallas.edu		
<b>Class Time &amp; Room</b>	online		
<b>Virtual Office Hours</b>	<b>On Zoom:</b> MW 2 pm - 4 pm and TTh 6 pm – 8 pm, or by appointment.		
<b>Catalog Description</b>	<p><b>TCCNS Number:</b> MATH 1314/1100 (1314 or 1414). 3 hours. Quadratic equations; systems involving quadratics; variation, ratio and proportion; progressions; the binomial theorem; inequalities; complex numbers; theory of equations; determinants; partial fractions; exponentials and logarithms.</p> <p><b>Prerequisite(s):</b> TSI-Math complete; or MATH 1010 with a grade C or better; or concurrent enrollment in MATH 1010.</p>		
<b>Required Text and Software</b>	MyMathLab ( <a href="http://mymathlab.com">http://mymathlab.com</a> ) via Canvas. The software package includes an e-copy of the textbook.		
<b>Recommended Text and References</b>	Algebra and Trigonometry, M. Sullivan, 10 <sup>th</sup> edition, Pearson, 2015, ISBN 13097803211998590.		
<b>On-line Tutoring (Smart Thinking)</b>	<ul style="list-style-type: none"> <li>• <a href="https://services.smarthinking.com/">https://services.smarthinking.com/</a></li> <li>• Initial ID &amp; PW untdstudent &amp; seagull</li> <li>• Math Tutoring (UNTD)</li> </ul>		
<b>Access to Learning Resources:</b>	<p><b>UNT Dallas Library:</b>  phone: (972) 780-1616  <a href="#">UNT Dallas Library Webpage</a>  email: <a href="mailto:library@untdallas.edu">library@untdallas.edu</a></p> <p><b>UNT Dallas Bookstore:</b>  phone: (972) 780-3652  <a href="#">UNT Dallas Bookstore Webpage</a>  e-mail: <a href="mailto:untdallas@bkstr.com">untdallas@bkstr.com</a></p>		

<p><b>Supported Browsers:</b>          Chrome          Firefox          Flash 28, 29 (for audio/video)          Internet Explorer 11          Safari 10, 11</p> <p><b>Supported Devices:</b>          iPhone          Android          Chromebook          (Tablet users can use the Canvas app)</p>	<p><b>Getting Help with Canvas:</b></p> <p><b>Canvas 24 /7 Phone Support for Students:</b> 1-833-668-8634</p> <p><b>Canvas Help Resources:</b>          web: <a href="https://community.canvaslms.com/docs/DOC-10701">https://community.canvaslms.com/docs/DOC-10701</a></p> <p><b>For additional assistance, contact Distance Learning:</b>          DAL1, Ste 150          email: <a href="mailto:distancelearning@untDallas.edu">distancelearning@untDallas.edu</a></p> <p><i>If you are working with Canvas 24/7 Support to resolve a technical issue, make sure to keep me updated on the troubleshooting progress.</i></p> <p><b>If you have a course-related issue (course content, assignment troubles, quiz difficulties) please contact me during office hours or by email.</b></p>
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<p><b>Core Objectives:</b></p> <p>This course addresses the core objectives of <b>critical thinking skills, communication skills, and empirical and quantitative skills</b></p> <ol style="list-style-type: none"> <li>1. <b>Critical Thinking Skills</b> – to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information.</li> <li>2. <b>Communication Skills</b> – to include effective development, interpretation and expression of ideas through written, oral and visual communication.</li> <li>3. <b>Empirical and Quantitative Skills</b> – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusion.</li> </ol>
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<b>Student Learning Outcomes:</b> Upon successful completion of this course the students will be able to	
1	analyze linear functions and use them to model real world problems.
2	solve algebraic equations and inequalities.
3	draw graphs of functions and transformations of these graphs.
4	identify functions and their graphs and use them to model real world problems.
5	demonstrate an understanding of exponential and logarithmic functions, their properties, and solve real world problems involving exponential and logarithmic equations.
6	solve systems of equations and inequalities in two variables.
7	read, write and manipulate mathematical phrases according to mathematical grammar.
8	gain acquaintance in writing mathematical sentences according to mathematical grammar.

### Course Outline/Schedule

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated through the class website and the official UNT e-mail. Besides the scheduled assignments, additional readings and activities may be added. Such changes will be communicated through announcements on Canvas.

<b>Schedule</b>	<b>Activities (Sections)</b>	<b>Topics</b>	<b>Due Dates</b>
<b>1/11-1/17</b>	(R.1) - (R.3), (1.1), (1.2)	Review, Equations, and Inequalities	<b>1/17/21</b>
<b>1/18-1/24</b>	(1.3) - (1.6)	Equations and Inequalities	<b>1/24/21</b>
<b>1/25-1/31</b>	(1.7), (2.1), (2.2)	Equations and Inequalities, Graphs, <b>Quiz I (1.1 – 1.7)</b>	<b>1/31/21</b>
<b>2/1-2/7</b>	(2.3) - (2.5)	Graphs, <b>Quiz II (2.1 – 125)</b>	<b>2/7/21</b>
<b>2/8-2/14</b>	(3.1) - (3.4)	Functions and Their Graphs	<b>2/14/21</b>
<b>2/15-2/21</b>	(3.5), (3.6), (4.1), (4.2)	Functions and Their Graphs, Linear and Quadratic Functions, Quiz III (3.1 – 3.6)	<b>2/21/21</b>
<b>2/22-2/28</b>	(4.3) - (4.5)	Linear and Quadratic Functions, <b>Quiz IV (4.1 – 4.5)</b>	<b>2/28/21</b>
<b>3/1-3/7</b>	<b>Exam 1 (3.1 – 4.5)</b>	<b>Review, Mid-Term Exam (Mar. 6)</b>	<b>3/7/21</b>
<b>3/15-3/21</b>	(5.1), (5.2)	Polynomial and Rational Functions	<b>3/21/21</b>
<b>3/22-3/28</b>	(5.3), (5.4)	Polynomial and Rational Functions	<b>3/28/21</b>
<b>3/29-4/4</b>	(5.5), (5.6), (6.1), (6.2)	Polynomial and Rational Functions, Exponential and Logarithmic Functions <b>Quiz V (5.1 -5.6)</b>	<b>4/4/21</b>
<b>4/5-4/11</b>	(6.3), (6.4)	Exponential and Logarithmic Functions	<b>4/11/21</b>
<b>4/12-4/18</b>	(6.5), (6.6)	Exponential and Logarithmic Functions	<b>4/18/21</b>
<b>4/19-4/25</b>	(6.6) - (6.9)	Exponential and Logarithmic Functions <b>Quiz VI (6.1 -6.9)</b>	<b>4/25/21</b>
<b>4/26-5/1</b>	Review	Review for Final Exam	<b>5/1/21</b>
<b>FINAL EXAM TO FOLLOW in TWO DAYS</b>			

<b>Final Exam (5/3)</b>	<b>Comprehensive</b>	<b>Final Exam (May 3)</b>	<b>5/3/21</b>
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## Course Evaluation Instruments

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

- **Quizzes:** assignments designed to measure the knowledge and the understanding on the course materials.
- **Homework Assignments (MyMathLab):** computer-based assignments designed to supplement and reinforce the course materials.
- **Exams:** tests to assess the overall learning of the students.
- **Projects:** assignments in larger scale that combine more in-depth applications.
- **Class Participation/Discussion:** Individual and/or group exercises that take place in on-line learning session.

## Grading Policy:

<b>Activities/Assignments</b>	<b>Value (percentages)</b>
Exams (Midterm + Final)	40% (15% + 25%)
Quizzes	20%
Homework	20%
Projects/Discussions/Participation	20%
<b>Total:</b>	<b>100%</b>

## Grade Determination

- A:  $89.5\% \leq (\text{Total Score})$   
 B:  $80\% \leq (\text{Total Score}) < 89.5\%$   
 C:  $70\% \leq (\text{Total Score}) < 79.5\%$   
 D:  $60\% \leq (\text{Total Score}) < 69.5\%$   
 F:  $(\text{Total Score}) < 59.5\%$ .

## 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](#). You may also contact them by phone at 972-338-1777; by email at [UNTDDisability@untdallas.edu](mailto:UNTDDisability@untdallas.edu) or in the Student Center Building, 1<sup>st</sup> floor.

**Canvas Instructure 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. [Canvas Instructure Course Management System's Accessibility Statement](#) is also provided.

**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.

**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.

**Assignment Policy:** The deadlines for the assignments are given in the course schedule. Late submissions may carry a penalty of 20%. At least one lowest homework grade and the quiz grade will be dropped.

**Exam Policy:** Online exams may be proctored on campus per instructor's discretion. No make up exam for the midterm and final exams will be given except for emergency situations supported by appropriate documentary evidence.

**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 in the [Student Code of Academic Integrity](#) Code 7.002 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.

## **Classroom Policies**

### **Online Attendance and Participation:**

The University attendance policy is in effect for this course. Class attendance in the Canvas 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 Canvas, 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 [Registrar's Office](#) 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 effected 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 forum threads 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](#) Code 7.001. 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 Assistance:** 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 listed on the first page of the syllabus.

If you experience difficulty 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 Canvas 24/7 Help Desk 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 [Canvas Student Guide](#).