

Course	MATH 1314-002 College Algebra
Professor	Dr. Paul Stanford
Term	Fall 2006
Meetings	10:00-10:50 a.m. MWF in JO 3.516

Professor's Contact Information

Office Phone	(972) 883-4143
Other Phone	(972) 883-2161 (math dept)
Office Location	FO 2.608
Email Address	paul.stanford@utdallas.edu
Office Hours	5:00-6:00 MW and 4:00-5:00 F
Other Information	Prefer contact through WebCT mail

General Course Information

Pre-requisites, Co-requisites, & other restrictions	Graphing calculators are not permitted.
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This course is intended to provide students with the algebraic skills needed for basic mathematics courses such as Math 1325, Math 2312, Math 2417, Math 2333 and Stat 1342.

Course Topics include equations and inequalities, Introduction to functions, Linear Equations and systems of linear equations, Polynomials, Rational expressions and functions, Exponents and radicals, Quadratic functions, Operations on functions, Exponential and logarithmic functions.

Course Description	Chapter 1: The Fundamental Concepts (1.1-1.5). Chapter 2: Equations and Inequalities (2.1-2.4). Chapter 3: Graphing Straight Lines and Functions (3.1-3.5). Chapter 4: Equations of a Line and Linear Systems in Two Variables (4.1-4.4).
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Chapter 5: Polynomial Expressions and Functions (5.1-5.7).
Chapter 6: Rational Expressions and Functions (6.1-6.8).
Chapter 7: Exponents and Radicals (7.1-7.7).
Chapter 8: Quadratic Functions and Equations (8.1-8.7).
Chapter 9: More on Functions (9.1-9.5).
Chapter 10: Exponential and Logarithmic Functions (10.1-10.5).

Learning Outcomes

Students will be able to formulate real world problems into mathematical statements, develop solutions to mathematical problems at the level appropriate to this course and describe or demonstrate mathematical solutions either numerically or graphically.

Learning Objectives

- 1). To know and be able to apply the basic axioms for the set of real numbers under the elementary arithmetic operations and be able to use the conventional order of operations.
- 2). Be able to evaluate and perform algebraic operations with various polynomial, rational, exponential and logarithmic functions and simplify the resulting expressions.
- 3). Be able to determine the domains of various polynomial, rational, exponential and logarithmic functions and to graph those functions.
- 4). Be able to solve equations involving various polynomial, rational, exponential and logarithmic functions.

Required Texts & Materials

Understanding Intermediate Algebra, 5nd Ed., Hirsch, Goodman.

Suggested Texts, Readings, & Materials

Student Solutions Manual is strongly recommended.

Assignments & Academic Calendar

[Topics, Reading Assignments, Due Dates, Exam Dates]

August 21	First day
September 4	Labor Day - no class
September 27	Exam I
October 25	Exam II
November 23-25	Thanksgiving Holiday
November 27	Last day (review)
December 1	Final Exam 8:00 a.m.-10:45 a.m.

Course Policies

Grading (credit) Criteria	<p>Each quiz is worth 25 points. The lowest two quiz scores will be dropped. The remaining quizzes are counted and converted to a percentage, giving a possible total of 100 points. Each regular examination is also worth 100 points. Only the best two scores from the quiz total or the regular exams will be used in the grade calculation, giving a possible total of 200 points. (In other words, the lowest of the three scores is dropped.) The comprehensive final examination is worth 200 points. This score cannot be dropped.</p> <p>These scores are weighted so that the best two of three scores contribute 60% towards the overall grade, and the final contributes 40% toward the overall grade.</p> <p>Grade Scale: [97,100] A+, [93,97) A, [90,93) A-, [87,90) B+, [83,87) B, [80,83) B-, [77,80) C+, [73,77) C, [70,73) C-, [67,70) D+, [63,67) D, [60,63) D-, [0, 60) F</p> <p>Midterm grades will be computed and submitted to the records office when requested. This grade will be computed in the following manner: Average of all quizzes up to this time (no drops) 50% Average of all exams up to this time (no drops) 50%</p>
Make-up Exams	NO MAKE-UPS except in extraordinary circumstances. Missed exams are a zero.
Extra Credit	n/a
Late Work	All students are expected to take the examinations at the announced time.
Special Assignments	Problems will be assigned on a regular basis. Answers to most of these problems are given at the back of the textbook. Complete solutions to many of these problems may be found in the Solutions Manual, which is on reserve at the library (and may be available in the bookstore).
Class Attendance	Classroom attendance is required.
Classroom Citizenship	Professional behavior is expected. Classroom discussions are not permitted between students. Cellphones must be turned off.
Field Trip Policies	n/a

<p>Student Conduct and Discipline</p>	<p>The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i>, which is provided to all registered students each academic year.</p> <p>The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).</p> <p>A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents's Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.</p>
<p>Academic Integrity</p>	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.</p>

	<p>Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p>
Email Use	<p>The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.</p>
Withdrawal from Class	<p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.</p>
Student Grievance Procedures	<p>Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>.</p> <p>In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and</p>

convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grades

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:

The University of Texas at Dallas, SU 22

PO Box 830688

Richardson, Texas 75083-0688

(972) 883-2098 (voice or TTY)

Disability Services

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

	<p>It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.</p>
Religious Holy Days	<p>The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.</p> <p>The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.</p> <p>If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911 (b), and the student and instructor will abide by the decision of the chief executive officer or designee.</p>
Off-Campus Instruction and Course Activities	<p>Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean.</p>

These descriptions and timelines are subject to change at the discretion of the Professor.