



Course Syllabus

Course Information

MATH 1314.502 College Algebra Fall 2008

Professor Contact Information

Instructor: Dr. Tommy Thompson

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Office hours: TR before class and by appointment

Class Location: GR 3.302

Course Pre-requisites, Co-requisites, and/or Other Restrictions

A high school algebra course.

Course Description

Students will deepen their understanding of algebra and develop algebraic skills they need to succeed in follow-up mathematics courses such as MATH 1325, MATH 2312, MATH 2417, MATH 2333 or STAT 1342.

Student Learning Objectives/Outcomes

1. Students will learn how to solve algebraic equations and inequalities.
2. Students will use algebraic methods to solve application problems.
3. Students will demonstrate understanding of and ability to work with polynomial and rational functions, exponents and radicals, exponential and logarithmic functions.

Required Textbooks and Materials

L. Hirsch/ A. Goodman, College Algebra: Understanding Functions, A Graphing Approach, ISBN 0-534-42327-2. Bring the text to every class.

Suggested Course Materials

The Student Solutions Manual is recommended.

Assignments & Academic Calendar

As part of this syllabus students are given a list of problems they are required to do. The Student Solutions manual provides detailed solutions to all those problems. However, to derive the maximum benefit, students should solve the problems before turning to the student solutions manual to check their work. Since calculators will not be used on the tests, calculations need only be set up for homework problems, not actually carried out.

Tests: There will be three examinations and a comprehensive final.

EXAM I September 18

EXAM II October 16

EXAM III November 20

Final Exam December 11

Quizzes: There will be a total of 12 quizzes (lowest 2 quizzes will be dropped)

MATH 1314 Fall 2008 Homework

Homework is required and will be submitted on exam days. Keep homework in a separate folder or notebook. In order to succeed in this course, one must work a large number of problems. Here is the list of selected exercises which everyone is expected to do. Many students might find it necessary to have more practice; they should choose similar problems from each section, review exercises or practice tests. Please keep all homework problems in a separate notebook. Clearly label the section and problem #. **Homework will be turned in on exam nights.** You must bring your homework to each exam, including the final exam.

Sec 1.2 # 1-33 odd, 48-50 all
Sec 1.3 # 1-71 odd
Sec 1.4 # 1-43 odd
Sec 1.5 # 1-7 odd, 13-79 odd
Sec 1.6 # 1-35 odd

Sec 2.1 # 1-49 odd, 55, 57, 65-71 odd
Sec 2.2 # 1-41 odd
Sec 2.3 # 1-23 odd, 31-49 odd, 51, 57
Sec 2.4 # 5-39 odd
Sec 2.5 # 1-49 odd
Sec 2.6 # 1-13 odd, 21-33 odd

Sec 3.1 # 1-21 odd, 47-53 odd, 58, 59, 63-87 odd
Sec 3.2 # 1-29 odd, 33-41 odd
Sec 3.3 # 1-43 odd, 57-59 all, 63, 71, 73
Sec 3.4 # 1-53 odd
Sec 3.5 # 1-61 odd, 79
Sec 3.6 # 1-33 odd
Sec 3.7 # 1-39 odd

Sec 4.1 # 13-35 odd, 39-43 odd
Sec 4.2 # 1-43 odd
Sec 4.3 # 1-41 odd
Sec 4.4 # 1-51 odd, 69, 83, 85
Sec 4.5 # 1-47 odd
Sec 4.6 # 1-37 odd, 41-47 odd

Sec 5.1 # 1-43 odd
Sec 5.2 # 1-19 odd
Sec 5.3 # 1-39 odd, 47-61 odd, 75-78 all
Sec 5.4 # 1-47 odd
Sec 5.5 # 1-39 odd
Sec 5.6 # 1-23 odd, 41

Sec 6.1 # 1-39 odd
Sec 6.2 # 1-49 odd, 55-62 all
Sec 6.3 # 1-13 odd, 15-18 all, 19-29 odd
Sec 6.4 # 1-41 odd
Sec 6.5 # 1-25 eoo (every other odd)

Grading Policy

Homework 10%

Quizzes 10%

EXAMS 40%

Comprehensive final 40%

Note: If it is to the student's advantage, the grade on the final exam will be used to replace one of the exam grades.

Grade Scale: [90, 93) A-, [93, 97) A, [97, 100] A+, [80, 83) B-, [83, 87) B, [87, 90) B+, [70, 73) C-, [73, 77) C, [77, 80) C+, [55, 60) D-, [60, 65) D, [65, 70) D+, [0, 55) F 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 (one drop only) 50%. Average of all exams up to this time (no drops) 50%.

Course & Instructor Policies

There will be no make-ups except in extraordinary circumstances which will require proper documentation. Graphing calculators will NOT be allowed. Cell phones and pagers must be turned off during exams and during class.

Field Trip Policies

Off-campus Instruction and Course Activities

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 the website address

http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.

Student Conduct & Discipline

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, *A to Z Guide*, which is provided to all registered students each academic year. 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 *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. 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). 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' 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.

Academic Integrity

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. 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. 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.

Email Use

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.

Withdrawal from Class

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.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*. 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 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 Grade Policy

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.

Disability Services

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)

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. 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.

Religious Holy Days

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. 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. 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.

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

Tentative Class Schedule

R Aug 21 Intro, 1.2

T Aug 26 1.3-1.4

R Aug 28 1.5-1.6, Quiz 1

T Sept 2 2.1-2.2 Quiz 2

R Sept 4 2.3-2.4

T Sept 9 2.5-2.6 Quiz 3

R Sept 11 Review for Exam

T Sept 16 Review for Exam

R Sept 18 Exam 1

T Sept 23 3.1-3.2

R Sept 25 3.3-3.4, Quiz 4

T Sept 30 3.5

R Oct 2 3.6, Quiz 5

T Oct 7 3.7

R Oct 9 Review for Exam, Quiz 6

T Oct 14 Review for Exam

R Oct 16 Exam II

T Oct 21 4.1-4.2

R Oct 23 4.3-4.4, Quiz 7

T Oct 28 4.5-4.6

R Oct 30 5.1-5.2, Quiz 8

T Nov 4 5.3-5.4

R Nov 6 5.5, Quiz 9

T Nov 11 5.6-6.1

R Nov 13 Review for Exam, Quiz 10

T Nov 18 Review for Exam

R Nov 20 Exam III

T Nov 25 6.2-6.3, Quiz 11

R Nov 27 Holiday

T Dec 2 6.4-6.5, Quiz 12

R Dec 4 Review for Final Exam

T Dec 9 Reading Day/No Class

R Dec 11 Final Exam