

Course Syllabus

Course Information

Math 1314

College Algebra

Summer 2007

Professor Contact Information

Instructor: William Scott

Office: EC 3.306 **Tel:** (972) 788-0655

Email: wms016100@utdallas.edu

Office hours: MR 4:30-5:30 pm or by appointment or any day before or after class

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 and A. Goodman: Understanding Intermediate Algebra, 5th edition

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.

Tests: There will be two midterm examinations and a comprehensive final.

Midterm I June 26

Midterm II July 17

Final Exam July 26

MATH 1314

Summer 2007

In order to succeed in this course, one must work a large number of problems.

Here is the list of selected odd-numbered 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.

Sec 1.1	# 1,7,9,17,21,25,29,31,41,45,47,49
Sec 1.2	# 9,11,13,15,17,19,31,33,43,53,63,65,67,75,77,79,91,93
Sec 1.3	# 13,15,25,29,35,41,45,53,59,67
Sec 1.4	# 23,25,27,29
Sec 1.5	# 11,15,19,27,33,37,45,49,53,55,57,59,65,67
Sec 2.1	# 1,3,5,13,15
Sec 2.2	# 31,35,39,51,55,57,61,65,69,83
Sec 2.3	# 17,33,39,45,53,59,67,71,73,75,77,81
Sec 2.4	# 1,3,5,21,29,33,37,39,45,47,53,57
Sec 3.1	# 3,5,13,19,21,23,37,39,45,51,53,55,57
Sec 3.2	# 3,5,7,11,13,21
Sec 3.3	# 3,9,15,17,23,25,27,45,47,49,53,55,57,59,61,73,75,81,89
Sec 3.4	# 7,9,13,15,19,23,25,27,29,33,41,43
Sec 3.5	# 1,7
Sec 4.1	# 7,13,21,23,25,27,33,41,45,49,55
Sec 4.2	# 9,13,17,21,23,29,31,33,37,41,49,57,59,67
Sec 4.3	# 3,7,11,23,29,39,43,49,57,59,67
Sec 4.4	# 9,21,23,39,41
Sec 5.1	# 1,7,9,11
Sec 5.2	# 7,13,17,23,27,31,35,37,43,47,49,61,67,69,71
Sec 5.3	# 9,17,21,25,35,43,47,63,65,71,73,85
Sec 5.4	# 5,7,11,19,23,25,35,37,41,51,53
Sec 5.5	# 3,7,17,35,55,65,73,89,97
Sec 5.6	# 1,7,9,19,27,29
Sec 5.7	# 1,3,7,11,19.

Sec 6.1	# 9,11,13
Sec 6.2	# 1,5,9,13,19,25,41
Sec 6.3	# 1,3,5,9,11,15,23,31,41,43
Sec 6.4	# 9,11,15,19,21,25,29,33,39,43,45,69,71
Sec 6.5	# 1,5,7,19,35
Sec 6.6	# 1,3,11,15,19,21,23,31,47,53
Sec 6.7	# 1,3,9,15,21,25,29,31,37
Sec 6.8	# 5,7,15,23,27,29,55,65
Sec 7.1	# 3,13,17,19,25,35,39,43,51,53,59,61,63,69,73,75,79,81,85, 89,93,95,99,101
Sec 7.2	# 7,13,15,19,23,25
Sec 7.3	# 1,3,5,11,13,23,25,27,29,33,35,37,39,43,45,49,53,59,67,69, 77,81,91,97
Sec 7.4	# 3,7,19,21,25,27,33,35,47,59,77,79
Sec 7.5	# 3,13,15,17,21,23,37,43,49,55
Sec 7.6	# 3,7,13,19,23,25,29,31,33,39,41,43,45,51,53,55,57,61,65
Sec 7.7	# 1,3,7,11,17,21,27,29,33,35
Sec 7.8	----
Sec 8.1	# 5
Sec 8.2	# 1,7,9,13,35,47,53,79,81,91,97,101
Sec 8.3	# 1,5,7,13,25
Sec 8.4	# 1,5,23,31,35,47,49,53
Sec 8.5	# 1,3,9,15,21,29,35,39
Sec 8.6	# 1,3,9,13,15,17,29,35,39
Sec 8.7	# 1,7,11,19,21,29,31,37,39,51
Sec 8.8	----
Sec 9.1	# 13,17,23,25,29,33,35,39
Sec 9.2	# 3,5,9,15,19,21,25,27,39,47,49
Sec 9.3	# 25,27,29,33,39,51,53
Sec 9.4	# 3,7,15,19,21,23,31,39,43,47,49
Sec 9.5	# 1,5,9,13,17,21
Sec 10.1	# 1,3,9,15,17,19,21,23
Sec 10.2	# 1,5,7,11,21,25,29,35,39,41,45,53,55,63,65,69,73,75,77
Sec 10.3	# 1,11,15,17,19,21,23,29,33,35,37,43,51
Sec 10.4	# 1,3,5,11,13,21,27,31,33,41
Sec 10.5	# 1,5,7,11,17,23,29,31,37
Grading Policy	Homework 10%
	Midterms 60%
	Comprehensive final 30%

There will be no make-ups except in extraordinary circumstances.