

Instructor: Dr. Joanna Robinson
Office: EC 3.206 Tel. (972)883-2278
Office hours: MWF 11:00 - 11:45 a.m.,
MW 2:00 – 2:45 p.m., R 4:30 – 5:15 p.m., Or by appointment
E-mail: joanna@utdallas.edu

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.

Textbook: L. Hirsch and A. Goodman: Understanding Intermediate Algebra 5th.
(Student Solutions Manual is recommended.)

Main Topics: Equations and inequalities;
Graphing Straight Lines and Functions
Equations of a line and linear systems;
Polynomial functions;
Rational expressions and functions;
Exponents and radicals;
Quadratic functions and equations;
Operations on functions;
Exponential and logarithmic functions.

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 three major tests and a comprehensive final.
Test I, Wednesday, February 9,
Test II, Wednesday, March 2,
Test III, Friday, April 15,
Final Exam: Wednesday, April 27 at 2:00 p.m.
There will be no make-ups, except in extraordinary circumstances.

Grading: Two best of the three major tests: 60%
Comprehensive final: 40%

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	#17,33,39,45,49,53,59,67,71,73,75,77,81
Sec 2.4	#1,3,5,21,29,33,37,39,45,47,53
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	#5,7,15,21,23,27,29,55,65

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 #1,3,9,15,21,29,33
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