Syllabus

Math 1314 Spring 2005

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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.

Textbook: Understanding Intermediate Algebra, 5th Ed., Hirsch, Goodman
(Student Solutions Manual is strongly recommended.)

Course Topics: 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

Tests: There will be two midterm examinations and a comprehensive final.
First Midterm is scheduled for Feb.10
Second Midterm is scheduled for Mar. 24
Final Examination is scheduled for Apr. 28, 5:00 pm.
There are no make-ups except under extraordinary circumstances.

Grading: Midterm Examinations 60%
Final Examination 40%

If it is to the student's advantage, a grade equal to the Final Exam grade may be substituted for a lower midterm grade.

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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