

# Syllabus

Math 1314

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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, 6<sup>th</sup> Edition, Hirsch and 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.  
There are no make-ups except under extraordinary circumstances.

**Homework:** A subset of the assigned homework problems will be taken up for grading.

<b>Grading:</b>	Midterm Examinations	60%
	Homework	10%
	Final Examination	30%

## MATH 1314

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