

MATH 1111 – College Algebra
Section 02, Summer 2008
MWF 12:00 pm - 1:50 pm, 303 Boyd Bldg

Instructor: Dr. Rui Xu
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Office hours: MF 8:50 am–10:00 am, MF 1:50 pm– 3:05 pm, W 8:30 am–10:00 am, W 1:50 pm–5:30 pm or by appointment.

Textbook: Precalculus (*3rd* Edition), by Robert Blitzer

Course Description: This course is a functional approach to algebra. Emphasis will be placed on the study of functions, and their graphs, inequalities, and, linear, quadratic and piece-wise defined, rational, polynomial, exponential and logarithmic functions. Appropriate applications will be included. Credit for this course is not allowed if the student already has credit for a higher-numbered mathematics course.

Topics: Functions and Their Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Equations, and Systems of Equations.

Learning Outcomes: Students should be able to demonstrate:

1. An understanding of how to solve inequalities including absolute value inequalities
2. An understanding the equations of circles and lines and using these to graph
3. An understanding of functions and how to graph functions
4. An understanding of operations on functions including function composition
5. An understanding of polynomial and rational graphs, including intercepts and asymptotes
6. An understanding of how to find the zeros of polynomials and factoring polynomials
7. An understanding of inverse functions and how to find them graphically and algebraically
8. An understanding of the properties of exponential and logarithmic expressions and
9. An understanding of how to solve a system of linear equations

Grading Methods: Grades will be assessed based on a total of 670 points (as shown below), using the standard decade scale: (90–100%=A, 80–89%=B, 70–79%=C , 60–69%=D, below 60%=F).

Test 1 (Covering Chapter 1)	100pts
Test 2 (Covering Chapter 2)	100pts
Test 3 (Covering Chapter 3)	100pts
Test 4 (Covering Chapter 7)	80pts
Final (Comprehensive)	150pts
Worksheet	120pts
Attendance	20pts
Total	670pts

Worksheet & Test policy: The best 24 worksheets will be counted. No make-up for worksheet. We try to spend some time in class working on the worksheet if time allows. Finished worksheet should be turned in on time to get credits. Worksheet may be graded partially or totally. I may grade a specific problem or just look for completeness. Make-up test can only be given for the students who have a University Approved Excuse. In that case, students should contact the instructor in advance to reschedule the make-up test.

Other Policies:

1. Class attendance will be taken every class day. You are not allowed to come to class late or to leave early. If you miss class for any reason, it is your responsibility to get the lecture notes from a classmate, read the text, and do the worksheet. You are allowed to miss at most 2 classes to get the full 20pts for attendance.
2. Pagers or cell phones should be set to an inaudible setting.
3. If you are a person with any kind of disability and anticipate needing any type of accommodation to participate in this class, please let me know and make appropriate arrangements with Disability Services.

Important Dates:

- June 9–10 : Drop/Add and late registration
- July 2 : Last day to withdraw with a grade of W
- July 4 : Independence Day Holiday (no class)
- July 28 : Last day of class
- July 30 : Reading Day
- August 1 : Final Exam 10:00 am–12:00 pm

Please note that the homework problems assigned below have been chosen to give you an idea of the range of problems you are expected to be able to work. You are not required to turn in your homework, but you are suggested to do all of the assigned problems and try to do more problems for practice.

Section 1.1: 2,4,5,7,9,13,17,21,27,29,33,35,37,41,45,47

Section 1.2: 2,4,9,11,15,21,25,35,39,45,53,57,61,63,65

Section 1.3: 1,7,15,19,21,27,31,33,37,41,45,49,53, 57, 59, 61, 63

Section 1.4: 1,3,9,11,13,19,25,27,35,37,43,45,49,51,59,71

Section 1.5: 1,3,5,7,9, 11, 13,15,19

Section 1.6: 1,3,5,7,9,21,31,53,59,75,79,97,103

Section 1.7: 1,3,7,11,15,19,35,39,49,59,67,71,75

Section 1.8: 1,3,7,15,17,23,31,33,41,45, 59,61

Section 1.9: 1,5,13,19,23,31,35,43,45,49,51

Section 2.1: 1,5,11,17,21,27,31,35,43,49

Section 2.2: 1,3,5,7,9,13,27,35,37,39,41

Section 2.3: 1,3,5,7,11,13,15,17,19,21,25,27,33,35,43,55

Section 2.4: 1,5,13,17,25,33,35,39,41,43

Section 2.5: 1,3,9,13,19,23,25,29,33,37,39,45

Section 2.6: 3,5,7,9,11,13,15,17,19,23,27,29,31,33,41,59, 61,65,71

Section 2.7: 1,7,19,25,29,31,39,43,49,53

Section 3.1: 11,15,19,21,23,29,31,35,41

Section 3.2: 1,3,5,7,9,11,19,21,23,27,29,33,35,37,39,43,45,47,49,51,55,59,61,65,71,75,79,81,83,87,91,99

Section 3.3: 1,5,11,21,25,27,35,41,47,53,65,69,71,75

Section 3.4: 1,9,13,15,19,25,27,31,37,41,43,55,65,81,87

Section 3.5: 1,3,5,7,13,15,21,25,31

Section 7.1: 1,7,13,21,27,31,33,37,43,45

Section 7.2: 1,3,5,9,15,19,21,23

Section 7.4: 1,5,21,25,29,33,37,43,45

Section 7.5: 1,7,13,19,23,27,43,49,51,61

Section 7.6: 1,3,5,7,9,11,13