

Math 1200 College Algebra
Time: TR 8:00 – 9:15 am
Office Hours: MW 12-1:30pm; TR 9:30-10:30 am; or by appt.
Candace.Blazek@anokaramsey.edu

Instructor: Candace Blazek
Office: H112
763.433.1133
Website: <http://www.ar.cc.mn.us/blazek/>

Anoka-Ramsey Community College
Course Syllabus
MATH 1200 – College Algebra
Fall 2009

Required Textbook: Algebra & Trigonometry, 5th Edition. Authors Sullivan & Sullivan

Supplementary Materials: 2 notebooks and pencils (one notebook for notes, the other for homework)
Graphing calculator is **required**.

Course Prerequisites: The completion of two years of high school algebra, one year of high school geometry, appropriate score on the math assessment test, or MATH 0210 with a grade of C or better, or equivalent.

Course Description: Topics include functions and function inverses; exponential and logarithmic functions; polynomial and simple rational functions; introduction to linear programming; systems of equations and inequalities; sequences and series; probability; and modeling. The completion of two years of high school algebra and one year of high school geometry is recommended.

Learner Outcomes

At the conclusion of the course, the student should be able to:

1. identify, transform, and/or produce the graph for a given function (including constant, linear, polynomial, parabolic, cubic, square root, absolute value, rational, logarithmic, and exponential).
2. identify, transform, and/or produce the graph of a circle.
3. find an equation of a line given sufficient information.
4. translate an applied problem into an equation or inequality and provide a solution through algebraic manipulation.
5. interpret an expression, equation, or inequality by utilizing a graph, table, or diagram.
6. define a function along with its domain and range.
7. combine functions through the operations of addition, subtraction, multiplication, division, and composition.
8. determine the inverse for a given function.
9. solve any equation of first or second degree.
10. solve an exponential equation.
11. solve a logarithmic equation.
12. solve a system of linear equations in two or three variables.
13. solve a system of inequalities.
14. solve a linear programming problem.
15. state the definition of an infinite sequence.
16. find a particular term or sequence of terms for a particular infinite sequence.
17. state the definition of an arithmetic sequence and give examples thereof.
18. state the definition of a geometric sequence and give examples thereof.
19. work back and forth readily between expanded and closed forms of summation notation.
20. expand a binomial raised to natural number power less than six.
21. apply the definition(s) of the Fundamental Counting Principle, a permutation and a combination to counting problems as appropriate.
22. apply the concepts of experiment, outcome, and sample space to a given model.
23. state the definition of probability of an event for a given sample space and apply such to simple problems.
24. determine if a mathematical argument is valid using definitions, field properties, and theorems.
25. create, analyze, and discuss the validity of a mathematical model for a set of data.
26. use a graphing utility and interpret the results where applicable in the above outcomes.
27. solve problems involving direct, inverse and joint variation.

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5-Part Recipe for Success (Complements of Roger Larson)

1. Attend All Classes
2. Take Notes
3. Complete the Homework
4. Study for Tests and Quizzes
5. Ask Questions Early

Quizzes/Homework: There are two components to homework for this class. The first component is a book assignment. To be successful in this class all homework in the book should be completed. The homework from the book will not be collected. The second component is web-based online homework. This should be completed after you have full comprehension of the material from the book. The web-based homework system used for this class is MyMathLab. Instructions for initializing an account with MyMathLab will be distributed the first day of class. The homework is scheduled according to the lectures. It is the responsibility of the student to check MyMathLab daily to look for class announcements and assignments due. Since students are given close to one week to complete the online assignments, NO extensions for any online assignments will be given. Aside from homework, in-class quizzes may also be given.

Examination Policy: There will be 4 exams, not including the Final Exam. Each exam will be worth 100 points. The exams will have a 50 minute time limit for completion. There will be portions of exams of which you can not use a calculator. If you have to miss an exam, contact me before the test to make arrangements for a make up exam. For make-up exams, you will be given three school days from the date of the exam to make-up the exam. If the exam is not made up within the three school days after the exam, a zero will be given – **no exceptions**. The final exam will be worth 200 points and will follow the final's schedule.

Resources: The following resources are available to you **FOR FREE**:

1. Me
2. Your fellow classmates
3. Academic Support Center

Students with disabilities or seeking special accommodations: Students wishing to receive accommodations for a disability, or other circumstance, are encouraged to speak with me within the first two weeks of the semester.

Grading Policy:

90 – 100% → A
80 – 89% → B
70 – 79% → C
60 – 69% → D
0 – 59% → F

Grades are based on:

Chapter Tests: 50%
Quizzes and
Homework 20%
Final: 30%

Pass/No Credit: If you wish to take this course on a pass/ no credit basis, you must inform me in writing by the end of the third week of class.

Class Rules:

- No personal conversations during class.
- Respect others when they are speaking. Do not speak over them.
- Put cell phones in silent mode or turn them off.
- Come to class on time.
- No rude comments.
- No Texting during class. If you are caught texting, the instructor's head may start spinning, steam will come out her ears, and she will take your phone away for the duration of the class. **Please turn your cell phone off before class begins.**

Important Dates

- Final Exam is scheduled for Monday, December 17th, 2009 from 4:10 to 6:10 pm. Room TBD.
- Last day to drop with a 100% refund is August 28th, 2009.
- The final day to drop is December 2nd, 2009.