

Math 1050 – College Algebra - Sections 3 & 5 Fall 2007

Instructor: Sarah Brown
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Prerequisites: A recent (within the last two years) Math ACT of 23 or a grade of "C" or better in Math 1010.
Text: *College Algebra*, 7th ed. by Michael Sullivan, Prentice Hall
Other Materials: Graphing Calculator
Fees: \$35 for Math Tutoring Center
Class Meetings: **Section 3:** 11-11:50am Monday through Friday SC129. Wednesday help sessions are optional.
Section 5: 1-1:50pm Monday through Friday SC129. Wednesday help sessions are optional.
Office Hours: Monday through Friday, 9:30-10:30 in SC 120

Course Description: (As found in the SUU 2007-2008 Undergraduate Catalog)

This course explores the concept of functions: polynomial, rational, inverse, logarithmic and exponential; with an emphasis on graphing. Solving systems of equations using matrix methods is covered along with conic sections. Other topics may include sequences, mathematical induction and the binomial theorem. The course involves the extensive use of graphing calculators.

Objectives:

- Be able to solve problems with and without the use of a graphing calculator, realizing both its strengths and limitations.
- Become familiar with common functions and their graphs. Be able to translate, reflect, and stretch the graphs, as well as find their inverses should they exist.
- Solve (systems of) equations and inequalities using graphing, substitution, elimination, and matrices.
- Understand the geometric derivation of conics and be able to graph them.
- Work with arithmetic and geometric sequences and geometric series.
- Use exponential and logarithmic functions and apply them to real world problems.

Grading:

Homework (49 assignments)	450 points (10 pts each, 4 lowest assignments will be dropped)
Midterm Exams (3 tests)	300 points (100 pts each, you may do corrections for half of the points you missed back)
Final Exam	250 points (cumulative with a significant portion on the last two chapters, no corrections for the final)
Extra Credit	½ point for each day you attend class except exam days and help sessions, provided you're on time and stay the whole class period. There are also extra credit test review assignments.

Grading Scale:

A	930-1000 (93%-100%)	B-	800-829 (80%-82%)	D+	670-699 (67%-69%)
A-	900-929 (90%-92%)	C+	770-799 (77%-79%)	D	630-669 (63%-66%)
B+	870-899 (87%-89%)	C	730-769 (73%-76%)	D-	550-629 (55%-62%)
B	830-869 (83%-86%)	C-	700-729 (70%-72%)	F	0-549 (0%-54%)

Homework:

The class is 4 credits. **Expect to spend at least 8 hrs on homework each week** (2 hours for every hour of class). Homework is graded by selecting a few of the assigned problems. **Correct work must be shown to get credit.** You are encouraged to work in groups but may not copy each other's homework. Copying solutions from others or the back of the book or solutions manual will result in 0 credit. Homework is collected at the end of class but may also be turned in at my office (SC 120) by 5pm sharp the day it is due. **Late homework is not accepted and missed exams cannot be made up unless there are extenuating circumstances as approved by the instructor.** Grades are posted approximately two weeks after each midterm exam on WebCT, which can be accessed from <http://www.suu.edu/curstu/>.

Attendance:

Attendance is expected. You receive ½ point extra credit for each day you attend class except exam days and Wednesday help sessions, provided you're on time and stay the whole class period.

Calculators:

No notes or calculators are allowed during the exams. The calculator is a very valuable tool and is required on many homework problems. However, its use can also inhibit understanding if it is figuring things out for you that you should be doing on your own, which is why calculators will not be allowed on exams. I encourage you to use your calculator on the homework problems only when necessary.

University Policies:

Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

Having an instructor's manual is not allowed.

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations, or auxiliary aids will need to contact the *Disability Support Center*, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.

Resources for Help:

- The Student Success Center <http://www.suu.edu/ss/success/> in the Sharwan Smith Center has free tutoring <http://www.suu.edu/ss/success/tutoring.html>.
- My office hours are Monday through Friday 9:30-10:30 in SC 120.
- I encourage you to form study groups with your classmates. However, problems must be written up in your own words. **Duplicate homeworks are not acceptable and will result in 0 credit for all parties.**
- Wednesday help sessions with the TA are primarily question/answer sessions.
- The textbook explanations can be helpful.

Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.