

Math 084

**North Seattle Community College
Algebra 1**

FALL 2004

5 credits

Meets daily, room CC 3457

9:00-9:50 a.m.

Prerequisite: Math 081, or placement

Text: Elementary Algebra by Charles McKeague (7th edition)

Instructor: Eileen Murphy

Office: IB 2420-B

Phone: 528 - 4505

E-mail: emurphy@sccd.ctc.edu

Office hours: By appointment

This syllabus is subject to change at the discretion of the instructor.

Course Content: Math 084 is the first half of the elementary algebra course. Included in this course is; operations on signed numbers, linear equations, linear inequalities, graphs of linear equations and inequalities, systems of lines equations and operations on exponents, polynomials and factoring. The course will include chapters 1–6.5 in the course textbook. Math 084 is a prerequisite for Math 097-S.

Daily Schedule: Each class will begin with questions from the homework. Check your homework sheet for specific problems. To succeed at the study of Algebra 1, you will need to attend class and come prepared with homework completed. Attendance is taken on a regular basis.

Homework: Daily homework as well as problems from each chapter test in the text will be assigned. Assigned homework is a beginning point only; do more problems if needed to fully understand the concepts. Homework that is to be turned in for credit must be on time. Late papers will not be accepted. Further information on homework that is to be submitted for credit will be given in class.

Supplies: All work must be done in pencil. A good eraser is a necessity for this class. Two spiral bound notebooks 8.5 x 11 are required; one is to be used for homework assignments, the other for in class notes. Graph paper will be needed for work in Chapters 3 and 4. Scientific calculators may be used on all tests and homework. Cell phone calculators are not allowed to be used on tests.

Cell phones and pagers: In consideration of others, turn ringers off and use cell phones outside of the classroom. All cell phones must be turned off during the test times and may not be answered during a test.

Tests: Students must be present the day a test is given in class. Make-up tests will be given only if I am notified within 24 hours of the test and the student has an excuse that is acceptable to me. If a student misses a test and does not meet the criteria for a make-up test, a grade of "0" will be given. The final exam for the 9:00am class of Math 084 will be Thursday, December 16, 2004 from 8:00am-10:00am.

Grading: The final grade will be computed by adding the points earned on the chapter tests, homework that is submitted for credit and class participation. An average of 70% or greater is necessary to receive a 'S' grade and meet the prerequisite for Math 097-S. This class is graded as "Satisfactory" or "No Credit".

Tutoring: Tutoring for Math 084 students is available in the Math Learning Center. One or two elective credits can be earned for attending tutoring sessions. Information on credit will be available in the Math Learning Center. I urge you to form your own study groups to help each other.

Classroom Etiquette: Math 084 is taught in a college environment. Please respect other students by allowing a learning environment that is both pleasant yet mindful of the quiet necessary for others to focus on what the instructor is teaching.

Math Anxiety Bill of Rights

I have the right to learn at my own pace and not feel put down or stupid if I'm slower than some one else.

I have the right to view myself as capable of learning math.

I have the right to ask whatever questions I have.

I have the right to ask the teacher or tutor for help.

I have the right to say "I don't understand".

I have the right to feel good about myself regardless of my abilities in the study of math.

I have the right to be treated as a competent adult.

I have the right to define success in terms of my own goals.

Homework Assignments

Math 084/97-S

Work all of the assigned homework problems plus any additional homework (handouts) distributed in class. Unless otherwise indicated, the problems assigned are the odd numbered only. Additional homework assignment will be assigned to be submitted for credit. Late papers will not be accepted without a 'late homework voucher.'

McKeague *Elementary Algebra 7th Ed.*

Section	Topic	Start Page	Problems
	"Preface to the Student"	xvii	read
1.1	Notation and symbols	9	1 –73 and 83-97 odds
1.2	Real Numbers	19	1-29 odds;31,37,41,45,51, 55,59,63,65,67,77,79,83
1.3	Addition of real numbers	29	3,5,7,13,15,17,21-45 odds, 59,61,63,65,67,71,73
1.4	Subtraction of real numbers	36	1-73 every other odd; and 77,79,87,89,93,95
1.5	Properties of real numbers	45	3,5,7,11,13,15,19,21,23,25, 29,31,37,41,45,49-79 odds
1.6	Multiplication of real numbers	53	1-79 every other odd and 93
1.7	Division of real numbers	59	1-81 every other odd and 77,
1.8	Subsets of real numbers	66	1-57 odds
1.9	Addition and subtraction with fractions.	73	1-45 odds
	Chapter 1 Test	81	1 - 40
2.1	Simplifying Expressions	91	1 – 71 & 79-87 odds
2.2	Addition Property of Equality	99	1 – 61 odds
2.3	Multiplication Property of Equality	107	1 – 67 odds
2.4	Solving Linear Equations	114	1 – 39 odds
2.5	Formulas	122	1 – 45 odds and 51–61
2.6	Applications	133	1 – 9 and 17-27 odds
2.7	More Applications	140	1-11,13,17,29
2.8	Linear Inequalities	149	1 – 65 odds
2.9	Compound inequalities	155	1-39 odds
	Chapter 2 Test	162	1-30 excluding #21
3.1	Paired Data and Graphing Ordered Pairs	171	29 – 51 odds

3.2	Solutions to Linear Equations in Two Variables	179	1 – 29 odds & 33
3.3	Graphing Linear Equations in Two Variables	187	1 – 39 odds
3.4	More on Graphing: Intercepts	192	1 – 43 odds
3.5	The Slope of a Line	200	1 – 33 & 37 odds
3.6	Finding the Equation of a Line	209	1 – 45 odds
3.7	Linear inequalities in two variables	216	1-27 odds
	Chapter 3 Test	222	all problems 1 - 16
4.1	Solving Linear Systems by Graphing	231	1 – 33 odds
4.2	The Elimination Method	241	1 – 41 odds
4.3	The Substitution Method	249	1 – 39 odds
4.4	Applications	255	1 – 27 odds
	Chapter 4 Test	262	all problems 1 - 14
5.1	Multiplication With Exponents	271	1 - 91 odds
5.2	Division With Exponents	282	1 – 89odds
5.3	Operations With Monomials	290	1 – 69 odds
5.4	Addition and Subtraction of Polynomials	295	13 – 47 odds
5.5	Multiplication With Polynomials	300	1 - 63 odds
5.6	Binomial Squares and Other Special Products	305	1 – 61 odds
5.7	Dividing a Polynomial by a Monomial	310	1 – 53 odds
5.8	Dividing a Polynomial by a Polynomial	315	1 – 31 odds
	Chapter 5 Test	321	all problems 1 - 28

Section	Topic	Start Page	Problems
6.1	The Greatest Common Factor & Factoring by Grouping	330	1 – 61
6.2	Factoring Trinomials	335	1 – 67
6.3	More Trinomials to Factor	341	1 – 53
6.4	The Difference of Squares	345	1- 61
6.5	Factoring: A General Review	349	all problems 1 - 63
6.6	Solving Equations by Factoring	355	1 – 73
6.7	Applications	364	1 – 27
	Chapter 6 Test	372	all problems 1 - 30
7.1	Reducing Rational Expressions to Lowest Terms	380	1 – 43
7.2	Multiplication and Division of Rational Expressions	389	1 – 45
7.3	Addition and Subtraction of Rational Expressions	397	1 – 49
7.4	Equations Involving Rational Expressions	403	1 – 41
7.5	Applications	411	1 – 23
7.6	Complex Fractions	417	1-29
7.7	Proportions	423	1-27
7.8	Variation	428	1-33
	Chapter 7 Test	434	all problems 1 - 19
8.1	Definitions and Common Roots	443	1 – 67
8.2	Properties of Radicals	451	1 – 61
8.3	Simplified Form for Radicals	457	1 – 47
8.4	Addition and subtraction of radical expressions	462	1-57
8.5	Multiplication and Division of Radicals	468	1-59
8.6	Equations Involving Radicals	473	1-33 and #47
	Chapter 8 Test	480	all problems 1 – 25
9.1	More Quadratic Equations	490	1 – 43 and # 49
9.2	Completing the Square	496	1 – 45
9.3	The Quadratic Formula	503	1 – 35
9.4	Complex Numbers	507	1-41
9.5	Complex Solutions to Quadratic Equations	510	1-43
9.6	Graphing Parabolas	517	1 – 27