

Math 098 **North Seattle Community College** **Fall 2004**
5 credits **Intermediate Algebra**
Meets Monday-Friday **8:00am- 8:50am**
Room 3457

Prerequisite: Math 97 (with at least a 2.0) or by placement.

Text: Intermediate Algebra by K. Elayn Martin-Gay (4th edition)

Instructor: Eileen Murphy

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Office hours: By appointment

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

Course Content: Welcome to Math 098! This course will include chapters 2 – 8.
Math 98 assumes that you have a working knowledge of beginning algebra.

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

Homework: Daily homework will be assigned and is to be done outside the class period. Assigned homework is a beginning point only. Do more problems if needed to fully understand the concepts. For 1 hour of class time, expect to do 2 hours of study. Homework that is to be turned in for credit must be on time. Late homework assignments will not be accepted without a late voucher. A student is given two late homework vouchers for the quarter and must follow the rules on the voucher. Further information on homework that is to be submitted for credit will be given in class.

Supplies: All work must be done in pencil. Two 8.5 X 11 spiral bound notebooks are required for this class. A good eraser is a necessity. Graph paper and a ruler will be needed for work in Chapters 3, 4 and 8. Scientific calculators may be used on all tests and homework. Cell phones are not allowed to be used as a calculator for tests.

Cell phones: In consideration of others, turn ringers off and use cell phones outside of the classroom. All cell phones must be turned off and put away during test times. Cell phones may not be answered or used 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 will be held on Wednesday, December 15, 2004 from 8:00am-10:00am.

Grading: Math 98 is a graded course. The grade will be determined by the number of points earned from homework submitted for credit, class participation, and tests. There are approximately between 800 and 900 points possible for this course. Tests and homework assignments will have a certain number of points. The number of points earned will be added together at the end of the quarter and divided by the total number of points possible to determine the percentage earned. The quarter grade will be based on the following percentages:

<i>percentage</i>	<i>grade point</i>
95-100	4.0
90-94	3.5-3.9
80-89	2.5-3.4
70-78	2.0-2.4
65-69	1.5-1.9
50-65	0.7-1.4
below 50	No Credit

Tutoring: Tutoring for Math 98 students is available in the Math Learning Center. I urge students to take advantage of the MLC and to form study groups with other members of the class.

Classroom Etiquette: Math 98 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. During class, please refrain from any behavior that would be a distraction for the other students or the instructor.

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.

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Homework Assignments: Unless otherwise stated, the assigned problems are the **odd numbers only**. EOO. is ‘every other odd problem’, 1, 5, 9, 13

2.1	Linear Equations in One Variable	60-61	1 – 19, 23 – 33, 37–77
2.2	An Introduction to Problem Solving	67 – 73	1, 3, 7, 9, EOO: 27-55
2.3	Formulas and Problem Solving	79 – 82	1 – 25, EOO: 29 – 49
2.4	Linear Inequalities and Problem Solving	92 – 94	EOO: 17 – 53, 57– 85,
2.5	Compound Inequalities	101 – 103	EOO: 13 – 31, 35 – 65
2.6	Absolute Value Equations	108 – 109	EOO: 1 – 71
2.7	Absolute Value Inequalities	114 – 115	EOO: 1 – 82
	Chapter 2 Test	126	all problems 1 - 18
3.1	Graphing Equations	140 – 141	1 – 53
3.2	Introduction to Functions	151– 156	1 – 9, 23 – 39, 55 – 69,95,97
3.3	Graphing Linear Functions	162 – 165	1 – 19, 23 – 32, 35 – 59
3.4	The Slope of a Line	177-180	EOO: 1 – 17, & 45 – 63, 67 – 87
3.5	Equations of Lines	189 – 192	EOO: 1 – 81,
3.6	Graphing Linear Inequalities	198 – 199	1 – 11, 23 – 33, 47 – 57
	Chapter 3 Test	187 – 188	1-20, 22-26
4.1	Solving Systems of Linear Equations in Two Variables	225 – 227	EOO: 1 – 63
4.3	Systems of Linear Equations and Problem Solving	243-245	1 – 15, & 23,25,35
	Chapter 4 Test	270	3-9
5.1	Exponents and Scientific Notation	282 – 284	EOO: 1 – 93, 105-121
5.2	More Work with Exponents and Scientific Notation	289– 291	1 – 75
5.3	Polynomials and Polynomial Functions	300 – 303	17 – 87
5.4	Multiplying Polynomials	311 – 313	EOO ; 1 – 85, 93
5.5	The Greatest Common Factor and Factoring by Grouping	318-319	9 - 65
5.6	Factoring Trinomials	327-329	EOO: 1 – 89
5.7	Factoring by Special Products and Factoring Strategies	334-335	EOO: 1-65
5.8	Solving Equations by Factoring and Problem Solving	350 – 352	EOO: 1 – 67, 71 - 83
	Chapter 5 Test	361	all problems, 1 – 29

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6.1	Rational Functions and Multiplying and Dividing Rational Expressions	372 – 375	EOO: 1 – 75
6.2	Adding and subtracting Rational Expressions	381-383	1 – 9, EOO: 27 – 81
6.3	Simplifying Complex Fractions	389-390	EOO: 1 – 53 & 55
6.4	Dividing Polynomials	396-398	EOO: 1 – 49 & 59
6.6	Solving Equations Containing Rational Expressions	408-409	1 – 47 & 59,63
6.7	Rational Equations and Problem Solving	418-421	1-17 & 19, 35,43,55.
6.8	Variation and Problem Solving	428-431	1 – 29 & 31,33
	Chapter 6 Test	442	1 – 14, 17-25
7.1	Radicals and Radical Functions	453 – 455	1– 83
7.2	Rational Exponents	462-463	EOO: 1 – 85
7.3	Simplifying Radical Expressions	469-470	1 – 71
7.4	Adding and Subtracting Radical Expressions	474-475	EOO: 1 – 75
7.5	Rationalizing Denominators and Numerators of Radical Expressions	481-482	odds: 1 -49
7.6	Radical Equations and Problem Solving	492 – 496	EOO: 1 – 49 & odds: 51-69
7.7	Complex Numbers	503-504	1 - 71
	Chapter 7 Test	513	1-31
8.1	Solving Quadratic Equations by completing the Square	526-528	EOO: 1 – 73, & 99,101,105
8.2	Solving Quadratic Equations by the Quadratic Formula	537-540	EOO: 1 – 61 & 51
8.3	Solving Equations by Using Quadratic Methods	546-549	EOO: 1 – 53 & 63
8.4	Non-Linear Inequalities in One Variable	557-559	EOO: 1 – 53
8.5	Quadratic Functions and Their Graphs	566-567	1-25
8.6	Further Graphing of Quadratic Functions	574-576	1 – 11, EOO: 13 - 41
	Chapter 8 Test	521 – 522	1-20