

Kilian Community College
Basic Algebra, MATH100, June 6-August 6

MEETING DAY AND TIME: Thursday, 6-10:00 p.m.

FACULTY NAME & DEGREE: Rose Toering; Bachelor of Arts in mathematics, SDSU; Bachelor of Science in accounting, CTU
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OFFICE HOURS: Check outside my office door, Room 210; times will vary. Call: 605-221-3100 (Kilian).

TEXT: Understanding Elementary Algebra with Geometry, 5th edition; Goodman, Hirsch, Brooks/Cole Publishing Company, 2002

COURSE DESCRIPTION: This course is a study of the properties and operations of the real number system. Emphasis is on the topics of polynomial functions, solving linear equations, graphing, exponent rules, factoring, radicals, and solving quadratic equations. If math is difficult for you, you should consider doing the two-semester fall Math 100 class; you must decide in the first week. You can use a calculator, not a TI-83, after chapter 1.

OBJECTIVES: After successfully completing the course, the student will be able to:

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| a. Simplify numerical expressions | b. Evaluate variable expressions |
| c. Write exponential expressions | d. Find solution sets of open sentences |
| e. Convert words into symbols for problem solving | f. Graph real numbers on the number line and on the Cartesian coordinate system |
| g. Add, subtract, multiply, and divide real numbers | h. Apply the basic axioms of algebra for solving equations |
| i. Add, subtract, multiply, and divide polynomials | j. Solve fractional equations |
| k. Transform inequalities and find their solution sets | l. Use slope-intercept for a linear equation |
| m. Simplify radicals and solve radical equations | n. Solve quadratic equations |

COURSE REQUIREMENTS & GRADES:

- 1. Participation:** There will be presentation sheets to do in class; turn those in when you leave at night. They will be in your folder the next day if you need them to study by. A student must be present for the entire class in order to receive the full 8 points.
- 2. Assignments:** Homework for the previous week is due at the next class section; students *must show work to get credit (when possible)*. If you only put the answer from the back of the book, you may receive “0” points. This is a basic algebra class; the purpose is to teach you the method of doing algebra. The answers are in the back of the book; use them. Look on the back of this page for assignments; you will do problems 1, 5, 9, 13, ... unless otherwise indicated. Always consult the syllabus; each section is worth 4 points. Call me for help, home/office.
- 3. Tests:** There are eight tests plus the final. Four bonus points can be added to your test by doing all the odds on chapter reviews and tests; these are due *when you take the test*. These points are optional. **Tests can be taken the night of class or any time before the next class meets.**

GRADE Scale: A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: below 60%

ASK FOR HELP: Ask for help. Math can be a difficult subject; try to do your homework as soon after class as possible; this reinforces your memory. You can also go to the Student Success Center (SSC); it is open Monday through Thursday, 8-9, Friday, 8-5, and Saturday, 9-3.

Possible points:	Presentation Sheets:	9 days x 10 points	= 90 points
	Homework	42 x 5 points	= 210 points
	Tests	8 x 100 points	= 800 points
	Final	1 x 200 points	= 200 points
	Bonus (optional)		
**Keep all assignments until you know they have been recorded.			= 1300 total points

*****Bonus Points:** 4 bonus points per chapter may be obtained by doing all the odds on the chapter review and chapter tests. Ask your teacher which ones you should do. For the Final, you may do the Cum. Tests, all; each one is worth 2 points. Look at the list below. If no indication, do : 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 77, 81, 85, 89, 93, 97, 101, ... Use answers in the back of the book. ***Please put each section (labeled) on a separate page; put the page number.***

Wk. 1	Intro (turn in)	1.1, p. 7, 1-81 as above, 85-88, all	1.2, p. 14, 1-97	1.3, p. 20, 1-85	1.4, p. 26, 1-89	1.5, p. 34, 1-77	1.6, p. 38, 1-49
Wk. 2	2.1, p. 52, 1-65	2.2, p. 61, 1-17, 25-77, 93, 97	2.3, p. 70, 1-13, 25-43, 53-93	2.4, 1-65	2.5, p. 85, 1-37 odd, 45, 47, 49, 51, 61, 65	Questions	TEST #1
Wk. 3	3.1, p. 97, 1-45	3.2, p. 106, 1-51, odd	3.3, p. 119, 1-49	3.5, p. 120, 1-49 as above, 53-69, odd	4.1, p. 151, 1-41	Questions	TEST #2
Wk. 4	4.2, p. 159, 1-44	4.3, p. 168, 1-89	4.4, p. 17, 1-65	4.5, p. 184, 1-25 as above, 27-41 odd	5.1, p. 210, 1-47 odd	Questions	TEST #3
Wk. 5	5.2, p. 222, 1, 5, 9-43 odd	5.3, p. 233, 1-31, 33-58 all	5.4, 1-57, odd	6.2, p. 270, 3-19 odd	6.3, p. 279, 1-14 all	Questions	TEST #4
Wk. 6	7.1, p. 303, 1-61	7.2, p. 312, 1-77	7.3, p. 319, 1-47 odd	7.5, p. 333, 1-77	8.1, p. 349, 7-45 odd, 47-58 all	Questions	TEST #5/6
Wk. 7	8.2, p. 355, 1-73	8.3, p. 362, 1-57	8.4, p. 370, 1-45 odd	8.5, p. 375, 1-29 odd	10.1, p. 433, 1-53 odd	Questions	TEST #7
Wk. 8	10.2, p. 441, 1-63 odd	10.3, p. 447, 1-65 odd	10.4, p. 455, 1-55 odd	10.5, p. 460, 1-53 odd	11.1, p. 484, 1-33 odd	Questions	TEST #8
Wk. 9	Review Sheet	Questions				TEST #10	FINAL

Bonust Points (4 points each chapter):

- Chapter 1: p. 41, Rev 1-63 odd; p. 42, Test, 1-17 odd
- Chapter 2: p. 89, Rev. 1-53 odd; p. 91, Test, 1-17 odd
- Chapter 3: p. 140, Rev. 1-33, odd; p. 141, Test, 1-3 all
- Chapter 4: p. 200, Rev. 1-37, odd; p. 202, Test, 1-3 all
- Chapter 5/6: p. 251, Rev. 1-43 (1, 5, 9, ...); p. 253, Test, 1-9 odd; p. 292, 2-7 all
- Chapter 7: p. 342, Rev. 1-19, 39-47, 53-95 (1, 5, 9, ...); p. 344, test, 1-5 all, 7-13 odd, 14
- Chapter 8: p. 377, Rev. 1-39, 47-53 odd; p. 378, Test, 1-17 odd
- Chapter 10/11: p. 463, Rev. 1-43, odd; p. 464, Test, 1-9 odd; p. 510, Test, 1-7 odd
- Final: p. 142, Cum. Test I, 1-5 all (2 points); p. 295, Cum. Test II, 1-15 all (2 points);
p. 427, Cum. Test III, 1-9, 12-19 all; p. 511, Cum. Test IV, 1-17 all

Introduction:

Kilian has a plagiarism/cheating policy. Please read the policy on the Kilian website. You can find this at www.kilian.edu; Current Students; Policies & Procedures, Academic Integrity Policy. Please bring this sheet back to class next time. Your signature below says that you understand these responsibilities.

Answer the following questions. Some of the answers can be found on your syllabus.

Teacher's name: _____

Your teacher's office: _____

Do you know where teacher and student folders are? _____

What does SSC stand for? _____

When can you use a calculator? _____

You may use a Ti-82, 83, etc.? (True or False)

When can you take tests?

How do you earn daily participation points?

How many points do you receive for turning in the presentation sheet? _____

When is homework due?

How much is each section of the homework worth? _____

You may not use the answers in the back of the book. (True or False)

How do you receive bonus points?

What is your major? _____

Do you plan on transferring to a 4-year university? _____

Do you have to take another math class? _____

Do you like math? _____ Why or why not?

Other questions: