

<b>Kilian Community College</b> <b>Intermediate Algebra, MATH101, March 6—May 20, 2006</b>
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**Meeting Time:** M/W, 8-10 a.m.

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**Instructor:** Rose Toering

**BA in math, SDSU**

**BS in Accounting, CTU**

**Office Hours:** Check either Room 208 or the Student Success Center, Room 207. Office hours are Monday through Friday; check the schedule outside of Room 208.

**Text:** *Intermediate Algebra, 5<sup>th</sup> ed., by Mark Dugopolski*

**Course Description:** This course is a study of real numbers, linear equations, inequalities, quadratic equations, systems of linear equations, polynomials, rational expressions and equations, radical expressions (cubed root, etc.) and equations, matrices, the imaginary number system, introduction of domain and range, complex factoring, and of calculator use for graphing functions and relations. You can use any calculator, TI-83s preferred..

**Objectives:**

- Evaluate variable and numbers with fractional exponents
- Do radical expressions other than square root
- Rationalize radicals in the denominator
- Factor quadratics with “a” not equal to 1
- Solve quadratic equations by factoring or with the quadratic formula
- Simplify a rational expression
- Simplify, add, subtract, multiply, and divide complex numbers
- Solve and graph absolute value equations
- Do basic levels of domain and range
- Graph linear functions and relations with a calculator
- Do applications word problems involving linear or quadratic equations
- Solve rational equations
- Find the midpoint and distance between two points
- Complete the square to solve a quadratic equation
- Evaluate the function
- Solve systems of equations with matrices

**Requirements:**

1. Participate in all classes.
2. Complete assignments and tests for each chapter satisfactorily.
3. Respect all participants in this class.

**Grading:**

Homework	41 assignments, 5 points each	205 points
Warm-up In-class Exer.	43, 3 points each	129
Tests	8 tests, 100 points each	800
Final exam	1 test, 200 points	<u>200</u>
	<b>Total</b>	<b>1334</b>

**A: 90-100%**

**B: 80-89%**

**C: 70-79%**

**D: 60-69%**

**F: < 60%**

**Bonus:** Do chapter reviews; see bottom of assignment sheet. Each bonus is worth 4 points; you may use these points for attendance, homework, or tests. These assignments must be turned in **before** you take the chapter test. These points are optional. To re-take a test, do the evens on the Chapter Review and Chapter Test.

**Extra help:** Go to Study Groups, call me anytime until 10:30 at night, 7 days a week, use the SSC.

**\*\*\*You may retake tests or make up tests *IF* you have been coming to class; you must contact me.**

**R means 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, 105, 109, 113, 117, 121, 125, 129, 133, 137, 141, 145, 149, 153... Answers are in the back of the book; use them.

**Please put each section on a separate page; you may use the back. Put the page number & section. You must show work whenever possible to get credit on tests and homework.** (Ex. S1.3 means Chapter 1, Section 3.)

<b>DATE:</b>	<b>IN-CLASS:</b>	<b>ASSIGNMENTS:</b>		
March 6	Intro	1.3, p. 26, 9-133R	1.4, p. 35, 9-93R	1.6, p. 52, 9-113R
March 8		2.1, p. 75, 9-85R	2.2, p. 84, 7-33, odd	2.3, p. 96, 7-21 all, 25, 27
March 13	<b>TEST #1</b>		2.4, p. 110, 9-65R	2.5, p. 119, 9-77R
March 15		2.6, p. 129, 7-29 odd	3.1, p. 152, 9-65R	3.2, p. 166, 9-49R
March 20			3.3, p. 179, 9-81R	3.4, p. 194, 9-57R
March 22				
March 27	<b>TEST #2</b>		3.5, p. 208, 33-39 odd, 53-97R	4.1, p. 236, 9-69R
March 29		4.2, p. 246, 9-61R	4.3, p. 255, 7-25odd	4.4, p. 263, 7-19, 33-49 odd
April 3	<b>TEST #3</b>		4.5, p. 274, 9-25, 37-61R	5.1, p. 306, 9-93R
April 5		5.2, p. 315, 9-73R	5.3, p. 324, 9-73R	5.4, 332, 9-89R
April 10	<b>TEST #4</b>		5.5, p. 342, 9-93R	5.6, p. 350, 9-109R
April 12			5.7, p. 357, 9-93R	5.8, p. 366, 9-61R
April 17			6.1, p. p. 389, 9-47, odd	6.2, p. 398, 9-77R
April 19	<b>TEST #5</b>		6.3, p. 408, 9-97R	6.4, p. 416, 5-57R
April 24			6.5, p. 427, 9-85R	6.6, p. 435, 9-61R
April 26			7.1, p. 466, 9-97R	7.2, p. 475, 9-69R
May 1	<b>TEST #6</b>		7.3, p. 483, 9-105R	7.4, p. 491, 1-97R
May 3			7.5, p. 502, 9-89R	7.6, p. 512, 9-97R
May 8			8.1, p. 535, 9-73R	8.2, p. 544, 9-61R
May 10	<b>TEST #7</b>	Review for final	8.3, p. 553, 9-57R	8.4, p. 564, 9-77R
May 15	<b>TEST #8</b>	Review for final		
May 17	<b>FINAL</b>			

**BONUS: Chapter Reviews**

<b>Chap. 1</b>	p. 58, Sect. 1.3, 1.4, 1.6 odd		<b>Chap. 5</b>	p. 374, 1-129R
<b>Chap. 2</b>	p. 135, 1-29 odd, 41-90 R		<b>Chap. 6</b>	p. 450, 1-59 odd
<b>Chap. 3</b>	p. 215, 1-109R		<b>Chap. 7</b>	p. 518, 1-109R
<b>Chap. 4</b>	p. 288, 1-55 odd		<b>Chap 8</b>	p. 583, 1-89R
<b>Final</b>	Any of the <b>Chapter Tests</b> , all, 1 pt. each, no story problems ( <b>Chapters 1-8</b> )			

**Your Name:** \_\_\_\_\_

Please turn in for 5 points of in-class work.

**Date:** \_\_\_\_\_

**Spring Semester, 2006**

**Answer the following questions. Some of the answers can be found on your syllabus; some you will discuss in class.**

1. Teacher's name: \_\_\_\_\_
2. Your teacher's office: \_\_\_\_\_
2. Can you use a calculator? \_\_\_\_\_ Which kind?
  
5. Do you know where teacher and student folders are? \_\_\_\_\_ If not, ask during break.
6. Can participation points be made up? \_\_\_\_\_ How do you get participation points every day?
  
7. Each section in the homework assignments is worth how many points? \_\_\_\_\_
8. Each section is to be done on a separate page of notebook paper. (True or False)
9. What will happen if you turn in homework late?
  
10. When must you turn in homework if it is not to be counted late?
11. When will the teacher NOT accept homework for a given chapter?
12. What can you do to get bonus points?
13. What happens if the only thing you show on homework is the answer from the back of the book?
14. You can only re-take tests or schedule them at another time if what?
  
15. What is your major? \_\_\_\_\_
16. Do you plan on transferring to a 4-year university? \_\_\_\_\_
17. Do you have to take another math class? \_\_\_\_\_
18. Do you like math? \_\_\_\_\_ Why or why not?

The Faculty Senate has formed a committee that has developed an Academic Integrity Policy to deal with the issues of cheating and plagiarism. For this class you are required to read the policy on the Kilian website: [www.kilian.edu](http://www.kilian.edu). (Go to current Students, Policies and Procedures, and Academic Integrity Policy); then sign the statement below and turn in for 4 points of homework. Remember that this policy includes copying homework, giving homework to someone to copy, or giving test information to another student.

I also understand and have read the syllabus and understand the requirements of this class.

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**\*\*\*This assignment is worth 5 points.**