

# MATH 1010: INTERMEDIATE ALGEBRA

**INSTRUCTOR: SEEGMILLER**

**TEXTBOOK: INTERMEDIATE ALGEBRA, MARTIN-GAY**

**MATERIALS NEEDED:** Calculator is required

**MATHEMATICS AT DIXIE STATE COLLEGE:** All classes in Mathematics at Dixie State support the general education goal of the college. Within the limitations imposed by the nature of mathematics (i.e. the dependency on prior learning and the need for content fluency), each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios/algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

**Purpose of Math 1010, Intermediate Algebra:**

The primary purpose of Math 1010 is to give students a basic understanding of Intermediate Algebra and prepare them for more advanced work in mathematics.

**Objectives:** Upon successful completion of Math 1010, a student will demonstrate through testing

- Perform basic mathematical operations on rational numbers with and without a calculator, including fractions, percents and decimals.
- Use algebraic processes to solve algebraic equations in one, two and three unknowns.
- Demonstrate the concept of equivalence including the use of variables to define relationships.
- Work with functions that serve as models of real-world problems including polynomial, quadratic, exponential and logarithmic functions.

**CLASS ATTENDANCE:** In order to be successful in mathematics, you must choose to attend class on a regular basis. Statistics have shown that grades improve with better attendance. Make-up exams as a general rule will **NOT** be given. The teacher may allow them in **RARE** circumstances.

**CLASS PARTICIPATION:** Be willing to be involved in the class as an active participant. Ask questions, contribute toward solutions and be interested in the class activities. In order to be successful, you must be involved as a participant, not on the sidelines as a spectator.

**MAKING A FRIEND IN CLASS:** Attempt to make a friend in your class. You may find that studying together helps you learn more, and more easily.

**GETTING HELP:** Getting the right help can be important to being successful in math. Even when you have gone to class regularly taken careful notes, read your text carefully, diligently done your homework, and made every effort to learn, you may still find you are having difficulty. If this is the case, seek help. Use the math labs, computer software, a tutoring service, or make an appointment with the instructor.

**HOMEWORK ASSIGNMENTS:** Math is a skill that is learned and mastered by doing it yourself with lots

and lots of practice. Set aside time each day for doing homework assignments. Do not attempt to do a whole chapter's assignments at one sitting. That is a disaster! Usually **two hours outside class** for every hour in class is required for college courses.

**GRADING:** During the semester there will be SIX 100 point tests given. Homework for each chapter will be due on the day of that chapter's test, and will count 20 points for each chapter. Homework will be graded on the level of completion. The final exam **will be comprehensive** and will be worth 175 points. **All** tests and homework will count on your grade. Your lowest test score can be replaced by the percent received on the final exam. Make-up exams will be **rarely** given.

**CODE OF CONDUCT:** Honesty is required and cheating in any form will not be tolerated. (The Dixie State College policy on academic dishonesty is explained on the school web site.)

**GRADING SCALE:**

A	94-100%	B	83-86%	C	70-74%	D	55-59%
A-	90-93%	B-	80-82%	C-	65-69%	D-	51-54%
B+	87-89%	C+	75-79%	D+	60-64%	F	0-50%

**DISABILITY STATEMENT**

If you are a student with a medical, psychological or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the Student Services Center. The Disability Resource Center will determine eligibility of the student requesting special service and determine the appropriate accommodations related to their disability.

# CLASS SCHEDULE

This schedule is tentative. Instructor may make changes at any time.

<u>DATE</u>	<u>SEC.</u>	<u>ASSIGNMENT</u>		
			11	Chapter 3 & 4 Review
			12	<b>Chapter 3 &amp; 4 Test</b>
			15	No School
<b>Jan</b>	11	2.1 1-65 EOO, 35,67-72,81		
	13	2.2 1-65 EOO, 23,24,43,80		
	14	2.3 1-37 EOO, 31,51,53	17	5.1 1-93 EOO, 95,111,113,135
	15	2.4 1-73 EOO, 74,75,81-84		
	18	No School	18	5.2 1-37 EOO, 19,47,57,69,73
	20	2.5 1-65 EOO, 81-83,85	19	5.3 1-65 EOO, 75,81,85,89- 92,111,113,119
	21	2.6 1-65 EOO, 75-77		5.4 1-73 EOO, 75,81,83
	22	2.7 1-73 EOO	22	5.5 1-65 EOO 5.6 1-77 EOO, 97
	25	Chapter 2 Review	24	5.7 1-53 EOO, 83,85,87
	27	<b>Chapter 2 Test</b>	25	5.8 1-53 EOO, 53,71,73,75,81,87
	28	No Class		
	29	3.1 1-16, 17-61 EOO, 65- 72, 77-80	26	Chapter 5 Review
<b>Feb</b>	1	3.2 1-39 ODD, 57-85 EOO,55,71,75,79,95	<b>Mar</b>	<b>1 Chapter 5 Test</b>
	3	3.3 9-12, 13-57 EOO, 31,73,75,77	3	6.1 1-73 EOO
		3.4 1-61 EOO, 35,39,67,75,78	4	6.2 1-65 EOO, 75,77
	4	3.5 1-81 EOO, 39,43,47,55,75	5	6.3 1-41 EOO, 6.4 1,3,5,29,30
	5	4.1 1-61 EOO, 73-82	8-12	No School
	8	4.2 1,3,5,9,17,21,39	15	6.5 1-45 EOO, 31
	10	4.3 1-33 EOO, 7,20,55	17	6.6 1-61 EOO, 31
			18	6.7 1-53 EOO, 23,31,47,51
			19	Chapter 6 Review

	22	<b>Chapter 6 Test</b>		26	7.2	1-85 EOO, 86
	24	7.1	1-81 EOO, 109	29	7.3	1-89 EOO
	25	No Class				
	31	7.4	1-73 EOO			
		7.5	1-65 EOO			
<b>Apr</b>	<b>1</b>	7.6	1-61 EOO, 51,55,64,66,69			
	2	7.7	1-49 EOO, 65,73,75,77			
	5	8.1	1-61 EOO, 75,77,81,83			
	7	8.2	1-33 EOO, 51,55,63,64			
	8	8.3	1-37 EOO, 49,57,61,63			
	9	Chapter 7 & 8 Review				
	12	<b>Chapter 7 &amp; 8 Test</b>				
	14	9.1	1-33 EOO, 27,31,43,45			
	15	9.2	1-49 EOO, 15			
	16	9.3	1-49 EOO, 47			
	19	9.4	1-73 EOO, 31,43			
	21	9.5	1-61 EOO, 35,43,55,59			
	22	9.6	1-65 EOO, 47,51,67			
	23	9.7	1-53 EOO, 47			
	26	Chapter 9 Review				
	28	<b>Chapter 9 Test</b>				
	29	Final Review				

### Final Test Schedule

<b>10:00-10:50 Class</b>	<b>Mon, May 3</b>	<b>9:30-11:30 AM</b>
<b>11:00-11:50 Class</b>	<b>Wed, May 5</b>	<b>10:00-12:00 Noon</b>
<b>1:00-1:50 Class</b>	<b>Mon, May 3</b>	<b>12:00-2:00 PM</b>