

# SYLLABUS – MATH 1010

## Intermediate Algebra

INSTRUCTOR: Darwin P. Leavitt  
CREDIT: 4 Semester Credits  
TEXT: Intermediate Algebra, Martin-Gay 5<sup>th</sup> Ed.  
Student Solutions Manual

Classroom: NIB 133  
Office Hrs: 9-10 AM, 11-12 PM (M- W:11-2 Th)  
Home: 131 So 200 West, Hurricane  
Phone: (H) 635-2625, (C) 680-0247  
Email: darleavitt@dixie.edu

**OBJECTIVES:** All Mathematics courses at Dixie State College will:

1. Require students to perform mathematical operations including fractions, percentages, decimals, ratio / proportions and algebraic expression.
2. Provide applications and problems that develop skill in arithmetic, algebraic processes, and geometry.
3. Expect students to make inferences from: mathematical models that include formulae, graphs, and tables.
4. Provide applications that are associated with real-life uses of mathematical operations.

Upon completion of MATH 1010 the student will demonstrate, through testing, the following:

1. Basic mathematical operations on rational numbers.
2. Use of Algebraic processes to solve equations containing up to three if the equations are **Linear, Quadratic, Rational, Exponential, Logarithmic or containing Radicals.**
3. Work with inequality expressions including "absolute value" terms.
4. Interpret real-life problems (verbal statements) as algebraic expressions and use correct procedures to solve for the desired values.

**GRADING STANDARDS:** Grading will be primarily based upon proof of skill development. Examination scores will contribute about 80% of the grade with homework assignments contributing the remaining 20%. Attendance is critical and roll is taken with points awarded for each period of perfect attendance.

**EXAMINATION POLICY:** Examinations will be taken as scheduled in the syllabus. You may re-take one examination during the term to improve your score. If you miss an exam you may use your re-take privilege to make it up. If an exam must be missed because of conflicting **SCHOOL RELATED RESPONSIBILITIES**, it can be made up only if prior arrangements are made. A final comprehensive examination will be given at the end of the term. While the examination is scored on SCANTRON score sheet, evidence of correctly working the problem (called "validation") is required for credit.

**HOMEWORK POLICY:** Homework will be collected as scheduled in the syllabus and will be collected during the class period. Late assignments will receive half-credit. Late work will not be accepted after the next homework is due. For full credit, homework will meet quality standards (a) legible,(b) validated,(c) organized, (d) complete.

**GRADING SCALE:** Grades are based upon the ratio of the number of points earned to the total possible on all assignments and exams. Grades are awarded as follows:

<u>Percent</u>	<u>Grade</u>	<u>Percent</u>	<u>Grade</u>	<u>Percent</u>	<u>Grade</u>	<u>Percent</u>	<u>Grade</u>	<u>Percent</u>	<u>Grade</u>	<u>Percent</u>	<u>Grade</u>
94-100	A	86-89	B+	78-81	B-	65-72	C	57-59	D+	50-52	D-
90-93	A-	82-85	B	73-77	C+	60-64	C-	53-56	D	<50	F

**USE OF CALCULATOR:** Calculators are encouraged, while not required, for both homework and exams. The Math Department encourages the use of the TI-83 or 89 graphing calculator. It will be used in math classes above MATH 1010.

### PRINCIPLES OF EFFECTIVE STUDY:

1. Work the problem to learn the concept, not merely to finish the assignment. Remember, you must demonstrate understanding on the exams.
2. Stay current with the assignments. In order to understand tomorrow's concepts you must be able to do today's work. Homework is the best preparation for the exams.
3. Read and study the text. There are two instructors in the course. The author group is one of them. Get used to them.
4. Use your SOLUTIONS MANUEL. It can be a valuable reference as you work the problems but be careful to learn the concepts and processes, not just to copy the manual.
5. A set of CD's of lectures for each section of the chapter is available at the library for you to study if you miss a lecture or want a second explanation.
6. Get help when you're stuck! Fretting over your work robs you of self-confidence and is a terrible waste of time. Call me. Leave a message and I'll call back ASAP.
7. Take advantage of the tutor service available at the Browning Resource Center. You may wish to organize a group for tutorial assistance. If you study with others don't quit until you can do the work alone.
8. Don't skip class even when you feel confident in the subject.
9. Get into the habit of organizing your work so it follows a pattern. Use your pencil to save your mind!

**Note:** If you have a **documented** disability or believe you may qualify for accommodation with a learning disability, please contact the Disability Director in the Advisement office to certify any accommodation you may require.

Date	Section	Assignment	Total
JAN '11			
M-10	2.1	21-93 EOO	20
T-11	2.2	1-61 EOO	16
W-12	2.3	1-65 EOO	17
R-13	2.4	17-93 EOO	20
M-17		<b>Holiday</b>	
T-18	2.5	1-69 EOO	18
W-19	2.6/2.7	41-69 EOO/49-93 EOO	20
R-20		Review Chap 2	
M-24		<b>Chap 2 Exam</b>	
T-25	3.1	1-77 EOO	20
W-26	3.2	1-93 EOO	24
R-27	3.3	1-65 EOO	17
M-31	3.4	13-89 EOO	20
Feb			
T-1	3.5	17-85 EOO, 93-97	23
W-2	3.6	1-61 EOO	16
R-3		Review Chap 3	
M-7		<b>Chap 3 Exam</b>	
T-8	4.1	17-77 EOO,89-93	21
W-9	4.2	1-25 EOO, 35-49 Odd	15
R-10	4.3	1-45 EOO	12
M-14		Review 4	
T-15		<b>Exam 4</b>	
W-16	5.1/5.2	No Hw/17-93 EOO	20
R-17	5.3	33-101 EOO,109	19
M-21		<b>Holiday</b>	
T-22	5.4	21-93 EOO	19
W-23	5.5	1-73 EOO,89	20
R-24	5.6	17-89 EOO	20
M-28	5.7	1-93 EOO	24
Mar			
T-1	5.8	17-93 EOO	20
W-2		Review Chap 5	
R-3		<b>Chap 5 Exam</b>	
M-7	6.1	13-81 EOO, 89	18
T-8	6.2	17-81 EOO, 101	18
W-9	6.3/6.4	15-19 Odd, 21-57 EOO /29-53 EOO	20
R-10	6.5	1-49 EOO,51,69	15

Date	Section	Assignment	Total
M-14--F-18		<b>Spring Break</b>	
M-21	6.6	1-57 EOO	15
T-22	6.7	1-45 EOO	12
W-23		Review Chap 6	
R-24		<b>Chap 6 Exam</b>	
M-28	7.1	21-89 EOO	18
T-29	7.2	17-93 EOO	20
W-30	7.3/7.4a	33-69 EOO/1-37 EOO	20
R-31	7.4b/7.5	49-73 EOO/1-25 EOO,49-61	26
Apr			
M-4	7.6	1-69 EOO,85,87	20
T-5	7.7	1-77 EOO	20
W-6	8.1/8.2	41-57 EOO,77-93 Odd /9-25 EOO,49-65 Odd	28
R-7	8.3	1-69 EOO	18
M-11		Review Chap 7-8	
T-12		<b>Chap 7-8 Exam</b>	
W-13	9.1	1-41 EOO	15
R-14	9.2	23-39 Odd	9
		<b>Sign up for Retake Exams</b>	
M-18	9.3	1-61 EOO	16
T-19	9.4	1-61 EOO	16
		<b>"Retake" Exams Today</b>	
W-20	9.5	21-53 EOO, 65	10
R-21	9.6	37-73 EOO	10
	9.7	1-61 EOO	16
M-25		Review Chap 9	
T-26		<b>Exam 9</b>	
W-27		Review for final	
R-28		Review for final	
29-Apr	9:30AM	<b>Final for 10AM Class</b>	
2-May	7:30AM	<b>Final for 8 AM Class</b>	

**EVERY OTHER ODD**

1	21	41	61	81	101
5	25	45	65	85	105
9	29	49	69	89	109
13	33	53	73	93	113
17	37	57	77	97	117