

COURSE: Math 1010E-09, Intermediate Algebra, MTWRF 11:00 ~ 11:50 AM
Classroom: NIB 150, 5 Credits

INSTRUCTOR: Dr. Clare Banks, banks@dixie.edu
Office: NIB 138 *Phone:* 652-7982
Office Hours: MTWR 9 ~ 9:50 AM, F 10 ~ 10:50 AM
and by appointment.

PREREQUISITE MATH 0930 (with an earned grade of C or better) or ACT score of 18 or higher.

REQUIRED : Elayn Martin-Gay, E. (2005), *Intermediate Algebra* (4th ed.). NJ: Prentice
TEXT Hall

CALCULATOR: A scientific calculator is required. You are not allowed to share calculators during tests or quizzes. The model TI-83 Plus will be used in class and is highly recommended.

COURSE WORK: The student's final grade will be determined by her/his performance on homework, midterm exams, and the final exam.

- *Final Exam:* Wednesday, December 12th 10:00 ~ 12:00 AM
The exam will be cumulative.
- *Homework:* Homework will be collected every Friday. Late homework will receive a 10% late penalty per day, regardless of the reason. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Show all work. Neatness is important. Do not hand in incomplete homework. Most of the time, a list of answers is not sufficient, you must show work. Check your answers in the back of the text when possible. Clearly label your homework with chapter and section numbers. Please do not staple more than one section together.
- *Exams:* There will be 6 exams. Each exam will be worth 100 points. No makeup exams will be given except in the case of a documented illness. The lowest test score can be replaced with the percent earned on the final exam.
- *Grading:* Final – 20%, Exams – 60%, HW – 15%,
Attendance – 5 %

GRADES: Grades will be assigned as follows:

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

DISABILITIES: If you are a student with a physical or mental impairment and would like to request accommodations, please contact the Disability Resource Center (652-7516) in Room 201 of the Student Services Center. The Disability Resource Center will determine your eligibility for services based upon complete professional documentation. If you are deemed eligible, the Disability Resource Center will further evaluate the effectiveness of your accommodation requests and will authorize reasonable accommodations that are appropriate for your disability.

COURTESY, ETC: No headphones during class or tests. Cell phones should be off. Please do not come late or leave early.

CHEATING: Cheating will not be tolerated. Dixie State College policy on Academic Dishonesty is explained on the website <http://www.dixie.edu/humanres/policy/sec3/334.html>

HELP: I am available during my office hours and by appointment. Browning Resource Center also has tutors available.

SUCCESS: To be successful in this course, follow these guidelines: 1) read before class, 2) attend all classes, 3) do all homework, 4) study each day – do lots of practice problems, 5) seek help immediately if you are lost, 6) have fun!

OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college. 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.

Math 1010 is designed to give students a basic understanding of Intermediate Algebra and prepare them for more advanced work in mathematics. Upon successful completion of the course, a student will demonstrate through testing the ability to:

- 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.

This Syllabus is tentative; students are responsible for any changes announced in class.

Outline (Tentative)

SUN	MON	TUE	WED	THU	FRI	SAT
19 Aug	20	21 2-1	22 2-2	23 2-3	24 2-4	25
26	27 2-5	28 2-6	29 2-7	30 <i>Review</i>	31 <i>Review</i>	1 Sep
2	3 No Class Labor Day	4 Test 1	5 3-1	6 3-2	7 3-3	8
9	10 3-4	11 3-5	12 4-1	13 4-2	14 4-3	15
16	17 <i>Review</i>	18 <i>Review</i>	19 Test 2	20 5-1	21 5-2	22
23	24 5-3	25 5-4	26 5-5	27 <i>Catch Up</i>	28 5-6	29
30	1 Oct 5-7	2 5-8	3 <i>Review</i>	4 <i>Review</i>	5 Test 3	6
7	8 6-1	9 6-2	10 6-3	11 No Class Fall Break	12 No Class Fall Break	13
14	15 6-4	16 6-6	17 6-7	18 6-8	19 <i>Review</i>	20
21	22 <i>Review</i>	23 Test 4	24 7-1	25 7-2	26 7-3	27
28	29 7-4	30 7-5	31 7-6	1 Nov <i>Catch up</i>	2 7-7	3
4	5 8-1	6 8-2	7 8-3	8 <i>Review</i>	9 <i>Review</i>	10
11	12 Test 5	13 No Class Career Day	14 9-1	15 9-2	16 9-3	17
18	19 9-4	20 9-5	21 No Class Thanksgiving	22 No Class Thanksgiving	23 No Class Thanksgiving	24
25	26 9-6	27 9-7	28 <i>Review</i>	29 <i>Review</i>	30 Test 6	1 Dec
2	3 <i>Final Review</i>	4 <i>Final Review</i>	5 <i>Final Review</i>	6 <i>Final Review</i>	7 <i>Final Review</i>	8
9	10	11	12 Final Exam 10~12	13	14	15

Aug 23 Last day to add classes without instructor permit

Sep 18 Last day to add classes

Nov 13 Last day for complete withdrawal

Oct 16 Last day to drop classes

Homework Assignments

2.1 EOO – 85,31,79,83,84
2.2 EOO-69,23,24,71
2.3 EOO-37,31,51,53
2.4 EOO-85,87-90,79
2.5 EOO-65,75,77,79,81
2.6 EOO-65,75,76,77
2.7 EOO-73

6-1 EOO-73
6-2 EOO-61,79
6-3 EOO-37,56,57
6-4 1,3,5,7,9,10
6-6 EOO-57,14,30
6-7 EOO-57,14,30
6-8 EOO-53,31,36

EXAM ONE

3-1 1-16, EOO 17-53, 63-67, 75-78
3-2 ODDS-39, EOO 53-95, 85
3-3 EOO-53, 11, 31, 73, 77
3-4 EOO-73, 35, 63, 75, 88-93
3-5 EOO-81, 39, 43, 47, 55, 75

4-1 EOO-61, 73-82
4-2 1, 3, 5, 9, 17, 21, 39
4-3 EOO-45, 7, 9, 53

EXAM TWO

5-1 EOO-93, 105, 111, 119
5-2 EOO-73, 85, 87
5-3 EOO-85, 89-92, 103, 105, 111
5-4 EOO-73, 81, 83
5-5 EOO-65, 82
5-6 EOO-81, 47
5-7 EOO-65, 35, 43, 79, 83
5-8 EOO-65, 3, 47, 73, 75, 81

EXAM THREE

EXAM FOUR

7-1 EOO-81, 105
7-2 EOO-85, 63, 83
7-3 EOO-69, 67
7-4 EOO-73
7-5 EOO-69
7-6 EOO-37, 47, 51, 53, 55, 59, 61, 64, 69
7-7 EOO-45, 61, 63, 65, 67, 77-81

8-1 EOO-53, 75, 77, 98, 101
8-2 EOO-21, 27, 29, 33, 37, 51, 55, 65
8-3 EOO-25, 33, 37, 57, 59, 61, 63

EXAM FIVE

9-1 EOO-33, 41, 43, 44
9-2 EOO-49, 15, 19, 27
9-3 EOO-49, 47
9-4 EOO-69, 27, 39
9-5 EOO-61, 43, 51, 55
9-6 EOO-65, 39, 47, 51, 67
9-7 EOO-53

EXAM SIX