

SYLLABUS---MATH 1010 SECTION 20
INTERMEDIATE ALGEBRA
CRN# 42269

FALL SEMESTER, 2011

Monday, Wednesday 2:00-3:50

Instructor: Dr. Gregory Berry
Credits: 4 Hours

Office: NIB 136 652-7991
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You will be given quizzes in class. Chapter TESTS will be given in the testing center (<http://new.Dixie.edu/testing/>). Test and quiz scores will be posted on Blackboard Vista. The final exam will be given in class.

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

- 1 Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- 2 Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- 3 Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- 4 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 this course, a student will demonstrate through testing the ability to:

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

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the **DISABILITY RESOURCE CENTER** Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

2. CALCULATORS: A scientific calculator is required, and a graphing calculator would be helpful.

3. EXAMINATIONS & QUIZZES: Each student is expected to take the examinations as scheduled. No make-up exam will be given unless the student notifies either the instructor or the math office before the end of the time period for taking the exam. A make-up exam will only be scheduled at the discretion of the instructor. A final comprehensive exam will be given at the end of the term. The grade on the final exam will also be used, if appropriate, to replace the lowest chapter exam grade. Frequent quizzes will be given, but only the top 10 scores will count. No make-up quizzes will be given. Examination results will be discussed in the class following the exam.

4. ATTENDANCE: Attendance is essential and roll will be taken. Unavoidable absences will only be penalized if excessive. The instructor needs to be notified in advance for all pre-known unavoidable absences. Tardiness will be frowned upon and may invoke the ire of the instructor.

5. ASSIGNMENTS: Homework assignments are to be done and submitted to the instructor (or left at the math office) no later than during the first class after each exam period. Late homework will only be accepted at the discretion of the instructor. Homework will not be graded but only checked for completeness and then returned. It is very important that you keep current on the assignments. It is suggested that the homework be attempted after the subchapter has been discussed in class. Additional review assignments will be posted on Blackboard Vista and it is expected that each student complete this assignment prior to the indicated chapter review class.

6. HELP: I will be the Adjunct office (NIB 134) directly after each class, but will only stay as long as necessary. I am also available for help by appointment. There are also tutors available in the Browning Resource Center and in NIB room 202 from 10:00-2:00, M-F.

7. SEMESTER SCHEDULE: <http://new.dixie.edu/reg/?page=fall2011>

8. CLASSROOM MANAGEMENT: Students are encouraged to review the class material prior to be presented in class. This includes reading the material subchapters to be discussed (including the example problems) and attempting to solve the practice problems. All of the practice problems will be discussed in class. Please turn off your cell phones in class. Usage will not be tolerated. During class time, please respect me and your fellow classmates. Listen when someone else is talking, participate when appropriate, stay awake and avoid disruptive behavior. If you do not want to be part of the learning process, I will let you know verbally that you are behaving inappropriately. If it continues, I will send you written notice. As a last resort I will not allow you to attend class.

9. GRADES: Grades will be calculated as follows:

Chapter Exams 40% - Final Exam 30% - Quizzes 15% - Homework 10% - Attendance 5%

Grades, exam/quiz scores, all lecture notes and administrative information (such as the assignment schedule and class calendar) will be posted on Blackboard Vista.

Grades will be assigned as follows:

A	100 – 94%	B	86 – 83%	C	74 – 70%	D	59 – 55%
A-	93 – 90%	B-	82 – 80%	C-	69 – 65%	D-	54 – 50%
B+	89 – 87%	C+	79 – 75%	D+	64 – 60%	F	49 – 0%

HOMEWORK ASSIGNMENT SCHEDULE

CH2 2.1 1-65 EOO, 35, 67-72 ALL, 81
2.2 1-65 EOO, 23, 24, 43, 80
2.3 1-37 EOO, 31, 51, 53
2.4 1-73 EOO, 75, 81-84 ALL
2.5 1-65 EOO, 81, 82, 83, 85
2.6 1-65 EOO, 75, 76, 77
2.7 1-73 EOO

REVIEW P.115 Ch 2 Test: 1-28 ALL, 2.2: 17, 19, 2.3: 31, 2.4: 29, 69, 74, 2.7: 21, 69

CH3 3.1 1-16 ALL, 17-61 EOO, 65-72 ALL, 77-80 ALL
3.2 1-39 ODDS, 57-85 EOO, 55, 71, 75, 79, 95
3.3 9 1-12 ALL, 13-57 EOO, 31, 73, 75, 77
3.4 1-61 EOO, 35, 39, 67, 75, 78
3.5 1-81 EOO, 39, 43, 47, 55, 75

REVIEW P.200-201 Ch 3 Test: 1-18 ALL, 22-26 ALL, 3.2: 1, 5, 3.5: 33, 75

CH4 4.1 1-61 EOO, 73-82 ALL
4.2 1, 3, 5, 9, 17, 21, 39
4.3 1-33 EOO, 7, 20, 55

REVIEW P.253 Ch 4 Test: 1-7 ALL, 11-14 ALL, 4.1: 73-75, 77-82 (find profit), 4.2: 5, 4.3: 1, 7, 20, 29

CH5 5.1 1-93 EOO, 95, 111, 113, 135
5.2 1-37 EOO, 19, 47, 57, 69, 73
5.3 1-65 EOO, 75, 81, 85, 89-92, 111, 113, 119
5.4 1-73 EOO, 81, 83
5.5 1-65 EOO
5.6 1-77 EOO, 67
5.7 1-53 EOO, 83, 85, 87
5.8 1-53 EOO, 71, 73, 75, 81, 87

REVIEW P.335 Ch 5 Test: 1-29 ALL, 5.4: 75, 83, 5.6: 41, 5.8: 17, 73, 75

CH6 6.1 1-73 EOO
6.2 1-65 EOO, 75, 77
6.3 1-41 EOO
6.4 1, 3, 5, 29, 30
6.5 1-45 EOO, 31
6.6 1-61 EOO, 31

REVIEW P.409-410 Ch 6 Test: 1-17 ALL, 21-29 ALL, 6.2: 77, 6.3: 35, 37, 6.5: 29, 40, 6.6: 5, 25, 33, 37

CH7 7.1 1-81 EOO, 109
7.2 1-85 EOO, 86
7.3 1-89 EOO
7.4 1-73 EOO
7.5 1-65 EOO
7.6 1-61 EOO, 51, 55, 64, 66, 69
7.7 1-49 EOO, 51, 65, 73, 75, 77

REVIEW P.475 Ch 7 Test: 1, 5, 6, 11, 13, 15, 16, 18, 22, 25, 27, 28, 29, 33, 35, 7.2: 85, 94, 7.3: 53, 57, 67, 7.4: 49, 58, 7.5: 36, 7.6: 16, 53

CH8 8.1 1-61 EOO, 75, 77, 81, 83
8.2 1-33 EOO, 51, 55, 63, 64
8.3 1, 5, 9, 11, 17

REVIEW P.537-8 Ch 8 Test: 2, 3, 4, 6, 22b, 8.1: 27, 8.2: 64

CH9 9.1 1-33 EOO, 27, 31, 43, 45
9.2 1-49 EOO, 15
9.3 1-49 EOO, 47
9.4 1-73 EOO, 31, 43
9.5 1-61 EOO, 35, 43, 55, 59
9.6 1-65 EOO, 47, 51, 67
9.7 1-53 EOO, 47

REVIEW 9.1: 1, 9, 15, 25, 29, 9.2: 2, 5, 37, 49, 9.3: 21, 33, 37, 45, 9.4: 1, 17, 29, 41, 49, 9.5: 25, 29, 51, 53, 55, 59, 9.6: 37, 49, 51, 9.7: 1, 3, 25, 41

FINAL REVIEW 2.2: 24, 25, 2.3: 5, 7, 2.4: 75, 2.6: 39, 3.4: 75, 3.5: 33, 75, 4.3: 1, 7, 29, 5.2: 18, 5.4: 69, 75, 83, 5.7: 17, 35, 6.1: 59, 6.2: 64, 6.3: 3, 29, 6.4: 5, 6.5: 5, 45, 6.7: 44, 7.2: 17, 7.4: 21, 61, 7.7: 56, 8.1: 29, 8.2: 9, 9.1: 31, 9.2: 33, 37, 9.3: 37, 9.4: 33, 55, 9.6: 37, 49, 9.7: 1, 3

TESTING & HOMEWORK SCHEDULE

M 8/22 INTRODUCTION

W 8/24 CH 1 & CH 2.1

M 8/29 CH 2.2 & 2.3

W 8/31 CH 2.2 & 2.3

M 9/5 HOLIDAY

W 9/7 CH 2.6 & 2.7

M 9/12 REVIEW CH 2

M-TU 9/12-9/13 TEST CH 2

**W 9/14 CH 3.1 & 3.2
LAST DAY to TURN in Homework for Chapter 2**

M 9/19 CH 3.3 & 3.4

W 9/21 CH 3.5 & 4.1

M 9/26 CH 4.2 & 4.3

W 9/28 REVIEW CH 3 & 4

W-SU 9/28-10/2 TEST CH 3 & 4

**M 10/3 CH 5.1 & 5.2
LAST DAY to TURN in Homework for Chapter 3 & 4**

W 10/5 CH 5.3 & 5.4

M 10/10 CH 5.5 & 5.6

W 10/12 CH 5.7 & 5.8

M 10/17 REVIEW CH5

M-TU 10/17-10/18 TEST CH 5

**W 10/19 CH 6.1 & 6.2
LAST DAY to TURN in Homework for Chapter 5**

M 10/24 CH 6.3 & 6.4

W 10/26 CH 6.5 & 6.6

M 10/31 REVIEW CH6

M-TU 10/31-11/1 TEST CH 6

**W 11/2 CH 7.1 & 7.3
LAST DAY to TURN in Homework for Chapter 6**

M 11/7 **CH 7.4 & 7.5**

W 11/9 **CH 7.6- & 7.7**

M 11/14 **CH 8.1 & 8.3**

W 11/16 **REVIEW CH 7 & 8**

W-SU 11/16-11/20 **TEST CH7 & 8**

M 11/21 **CH 9.1 & 9.2**
LAST DAY to TURN in Homework for Chapter 7 & 8

W 11/23 **HOLIDAY**

M 11/28 **CH 9.3 & 9.4**

M 11/28 **CH 9.5 & 9.7**

W 11/30 **REVIEW CH 9**

W-SU 11/30-12/4 **TEST CH 9**

M 12/5 **FINAL REVIEW 1**
LAST DAY to TURN in Homework for Chapter 9

W 12/7 **FINAL REVIEW 2**
LAST DAY to PICK UP Homework & Quizzes

M 12/12 **FINAL EXAM 12:30 TO 2:30**