

MATH 1010: INTERMEDIATE ALGEBRA
4 CREDIT HOURS
SUMMER SEMESTER 2011
CLASSROOM: NIB 133

INSTRUCTOR: PAXMAN
OFFICE:
PHONE: TBA
OFFICE HOURS: TBA

TEXTBOOK: *INTERMEDIATE ALGEBRA; Martin-Gay*

MATERIALS NEEDED: Calculator is required.

MATHEMATICS AT DIXIE COLLEGE: All classes in mathematics at Dixie College 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 definitely 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** cases.

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 THE CLASS: Attempt to make a friend in your class. You may find you enjoy sitting together and drawing support and encouragement from one another. Study together whenever possible.

GETTING HELP: Getting the right kind of help at the right time can be a key ingredient to being successful in math. When you have gone to class on a regular basis, taken careful notes, read your text carefully, diligently done your homework, thus making every effort possible to learn the mathematical skills, you may find that you are still having difficulty. If this is the case, then you need to seek help. Make an appointment with the instructor to find out what help is available to you in the form of instructor time, tutoring service, math labs and computer software.

HOMEWORK ASSIGNMENTS: Keep in mind that math is a skill that can only be learned and mastered by doing it yourself with lots and lots of practice. **There is no other way!** Set aside some time each day for doing homework assignments. Do not attempt to do a whole chapter's assignments at one sitting. That is a disaster! **A minimum of two hours** spent studying outside of class for each hour in class is usually required for college courses.

GRADING: During the quarter, FIVE 100-point tests will be given. These will be multiple choice questions. Also on the day after the test, all homework for that chapter(s) will be due. The homework is graded on completion and is worth 20 points each chapter. The final exam will be ***comprehensive*** and worth 175 points. **All** tests will count toward your grade. The lowest test score can be replaced by the percent on the final exam. Make-up exams as a general rule will not be given; the teacher may allow them in **rare** cases.

CALCULATORS: A scientific calculator is required. A graphing calculator would be useful

CODE OF CONDUCT: Dishonesty, including, but not limited to, cheating, plagiarism, or knowingly furnishing false information to the college, will result in expulsion from the class.

GRADING SCALE:

| | | | | |
|----------|----------|----------|----------|---------|
| | B+ ≥ 87% | C+ ≥ 75% | D+ ≥ 60% | |
| A ≥ 94% | B ≥ 83% | C ≥ 70% | D ≥ 55% | F < 50% |
| A- ≥ 90% | B- ≥ 80% | C- ≥ 65% | D- ≥ 50% | |

****ALL GRADES WILL BE EMAILED TO A DMAIL ACCOUNT ONLY****

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.

Math 1010: Intermediate Algebra
(Tentative Schedule)

| DATE | SEC | ASSIGNMENT | DATE | SEC | ASSIGNMENT |
|------|-----|---|------|-----|---|
| AUG | 23 | 2.1 1-65 E.O.O., 35, 67-72, 81 2.2 1-65 E.O.O., 23, 24, 43, 80 | NOV | 1 | 7.1 1-81 E.O.O., 109 7.2 1-85 E.O.O., 86 7.3 1-89 E.O.O. |
| | 25 | 2.3 1-37 E.O.O., 31, 51, 53 2.4 1-73 E.O.O., 74, 75, 81-84 | | 3 | 7.4 1-73 E.O.O. 7.5 1-65 E.O.O. |
| | 30 | 2.5 1-65 E.O.O., 81, 82, 83, 85 2.6 1-65 E.O.O., 75, 76, 77 | | 8 | 7.6 1-61 E.O.O., 51, 55, 64, 66, 69 7.7 1-49 E.O.O., 65, 73, 75, 77 |
| SEP | 1 | 2.7 1-73 E.O.O. CHAPTER 2 REVIEW | | 10 | 8.1 1-61 E.O.O., 75, 77, 81, 83 8.2 1-33 E.O.O., 51, 55, 63, 64 |
| | 6 | CHAPTER 2 TEST | | 15 | 8.3 1, 5, 9, 11, 17 CHAPTERS 7 & 8 REVIEW |
| | 8 | 3.1 1-16, 17-61 E.O.O., 65-72, 77-80 3.2 1-39 O., 57-85 E.O.O., 55, 71, 75, 79, 95 3.3 9-12 ALL, 13-57 E.O.O., 31, 73, 75, 77 | | 17 | CHAPTERS 7 & 8 TEST |
| | 13 | 3.4 1-61 E.O.O., 35, 39, 43, 47, 55, 75 3.5 1-61 E.O.O., 39, 43, 47, 55, 75 | | 22 | 9.1 1-33 E.O.O., 27, 31, 43, 45 9.2 1-49 E.O.O., 15 9.3 1-49 E.O.O., 47 |
| | 15 | 4.1 1-61 E.O.O., 73-82 4.2 1, 3, 5, 9, 17, 21, 39 | | 24 | NO SCHOOL |
| | 20 | 4.3 1-33 E.O.O., 7, 20, 55 CHAPTERS 3 & 4 REVIEW | | 29 | 9.4 1-73 E.O.O., 31, 43 9.5 1-61 E.O.O., 35, 43, 55, 59 |
| | 22 | CHAPTERS 3 & 4 TEST | DEC | 1 | 9.6 1-65 E.O.O., 47, 51, 67 9.7 1-53 E.O.O., 47 |
| | 27 | 5.1 1-93 E.O.O., 95, 111, 113, 135 5.2 1-37 E.O.O., 19, 47, 57, 69, 73 5.3 1-65 E.O.O., 75, 81, 89-92, 111, 113, 119 | | 6 | TBA/FINAL REVIEW |
| | 29 | 5.4 1-73 E.O.O., 75, 81, 83 5.5 1-65 E.O.O. 5.6 1-77 E.O.O., 67 | | 8 | TBA/ FINAL REVIEW |
| | | | | 13 | FINAL |
| OCT | 4 | 5.7 1-53 E.O.O., 83, 85, 87 5.8 1-53 E.O.O., 71, 73, 75, 81, 87 CHAPTER 5 REVIEW | | | |
| | 6 | CHAPTER 5 TEST | | | |
| | 11 | 6.1 1-73 E.O.O. 6.2 1-65 E.O.O., 75, 77 | | | |
| | 13 | NO SCHOOL | | | |
| | 18 | 6.3 1-41 E.O.O. 6.4 1, 3, 5, 29, 30 | | | |
| | 20 | 6.5 1-45 E.O.O., 31 6.7 1-53 E.O.O., 23, 31, 47, 51 | | | |
| | 25 | 6.6 1-61 E.O.O., 31 CHAPTER 6 REVIEW | | | |
| | 27 | CHAPTER 6 TEST | | | |