

SYLLABUS - MATH 1010 INTERMEDIATE ALGEBRA

INSTRUCTOR: Ross N. Taylor
CREDIT: 4 Semester Credits
TEXT: Intermediate Algebra, Martin-Gay 5th Ed.
Student Solutions Manual

CLASSROOM: NIB 107
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OBJECTIVES: All mathematics courses at Dixie State College will:

1. Require students to perform mathematical operations including fractions, percentages, decimals, ratio/proportions and algebraic expressions;
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, 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 variables if the equations are **Linear, Quadratic, Rational, Exponential, Logarithmic or containing Radicals.**
1. Work with inequality expressions including "absolute value" terms.
 2. 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 by *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.

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

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:

| Percent | Grade | Percent | Grade | Percent | Grade | Percent | Grade | Percent | Grade | Percent | Grade |
|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| 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 |

PRINCIPLES OF EFFECTIVE STUDY:

1. Work the problems to learn the concept, not merely to finish the assignment. Remember, you must demonstrate understanding on the exams.
2. Stay current with your 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 MANUAL. It can be a valuable reference as you work the problems but be careful to learn the concepts and processes, not just copy the manual.
5. A set of CD's of lectures for each section of each 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 at 673-5424 anytime. If I'm not there try my cell # 619-5424. Leave a message. I'll call when I get it.
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 |
|-------|---------|------------------------------------|-------|
| Aug | | | |
| M-24 | 2.1 | 21-97 EOO | 20 |
| T-25 | 2.2 | 1-61 EOO | 16 |
| R-27 | 2.3 | 1-65 EOO | 17 |
| F-28 | 2.4 | 17-93 EOO | 20 |
| | | | |
| M-31 | 2.5 | 1-69/EOO, 81-85 | 23 |
| Sept. | | | |
| T-1 | 2.6/2.7 | 41-69 EOO/ 49-93 EOO | 20 |
| R-3 | | Chap 2 Review | |
| F-4 | | Chap 2 Exam - HW due | 116 |
| | | | |
| M-7 | | Labor Day Holiday | |
| T-8 | 3.1# | 1-77 EOO | 20 |
| R-10 | 3.2 | 1-93 EOO | 24 |
| F-11 | 3.3 | 1-65 EOO | 17 |
| | | | |
| M-14 | 3.4! | 13-89 EOO | 20 |
| T-15 | 3.5 | 17-85 EOO, 93-97 | 23 |
| R-17 | 3.6 | 1-61 EOO | 16 |
| F-18 | !! | Chap 3 Review | |
| | | | |
| M-21 | | Chap 3 Exam-HW due | 120 |
| T-22 | 4.1 | 17-77 EEO, 89-93 | 21 |
| R-24 | 4.2 | 1-25 EOO | 7 |
| F-25 | 4.3 | 1-45 EOO | 12 |
| | | | |
| M-28 | | Chap 4 Review | |
| T-29 | | Chap 4 Exam-HW due | 40 |
| Oct | | | |
| R-1 | 5.1/5.2 | No Hw/ 17-93 EOO | 20 |
| F-2 | 5.3* | 33-101 EOO, 109 | 19 |
| | | | |
| M-4 | 5.4 | 21-93 EOO | 19 |
| T-5 | 5.5 | 1-73 EOO, 89 | 20 |
| R-7 | 5.6 | 17-89 EOO | 20 |
| F-8 | 5.7 | 71-105 Odd, 115-117 | 21 |
| | | | |
| M-2 | 5.8 | 17-93 EOO | 20 |
| T-13 | | Chap 5 Review | |
| 16-17 | | Semester Break | |
| | | | |
| M-19 | | Chap 5 Exam -HW due | 139 |
| T-20 | 6.1 | 37-81 EOO, 89 | 13 |
| R-22 | 6.2 | 37-81 EOO, 101 | 13 |
| F-23 | 6.3/6.4 | 15-19 Odd, 21-57 EOO/ 29-53 EOO | 20 |
| | | | |
| M-27 | 6.6 | 1-49 EOO, 69 | 14 |
| T-28 | 6.7 | 1-57 EOO | 15 |

| | | | |
|-------|----------|---|-------|
| R-30 | 6.8 | 1-45 EOO | 12 |
| F-31 | | Chap 6 Review | |
| Date | Section | Assignment | Total |
| Nov | | | |
| M-2 | | Chap 6 Exam-HW due | 87 |
| T-3 | 7.1 | 21-89 EOO | 18 |
| R-5 | 7.2 | 17-93 EOO | 20 |
| F-6 | 7.3/7.4a | 33-69 EOO/ 1-37 EOO | 20 |
| | | | |
| M-9 | 7.4b/7.5 | 49-73 EOO/1-25 EOO, 49-61 | 26 |
| T-10 | 7.6 | 1-69 EOO, 85,87 | 20 |
| R-12 | 7.7 | 1-77 EOO | 20 |
| F-13 | | Chap 7 Review- HW due | 124 |
| | | | |
| M-16 | | Chap 7 Exam | |
| T-17 | | Career Day | |
| R-19 | 8.1/8.2 | 41-57 EOO, 77-93 Odd /9-25 EOO, 49-65 Odd | 28 |
| F-20 | 8.3 | 1-69 EOO Sign up for Retake Exams | 18 |
| | | | |
| M-23 | 9.1 | 1-41 EOO | 15 |
| T-24 | 9.2 | 23-39 Odd "RETAKE" EXAMS TODAY | 9 |
| 25-27 | | Thanksgiving Vacation | |
| | | | |
| M-30 | 9.3 | 1-61 EOO | 16 |
| Dec | | | |
| T-1 | 9.4 | 1-61 EOO | 16 |
| R-3 | 10.5 | 21-53 EOO, 65 | 10 |
| F-4 | 9.6 | 37-73 EOO | 10 |
| | | | |
| M-7 | 9.7 | 1-61 EOO | 16 |
| T-8 | | Review Chap 8,9 HW due Test Chap 8,9 in TC | 128 |
| R-10 | | Review for Final | |
| F-11 | | Review for Final | |
| | | | |
| M-14 | 10:AM | Final for 9 AM Class | |
| F-18 | 7:30A | Final for 8 AM Class | |

"Every Other Odd" Numbers

| | | | | |
|----|----|----|----|-----|
| 1 | 25 | 49 | 73 | 97 |
| 5 | 29 | 53 | 77 | 101 |
| 9 | 33 | 57 | 81 | 105 |
| 13 | 37 | 61 | 85 | 108 |
| 17 | 41 | 65 | 89 | 113 |
| 21 | 45 | 69 | 93 | 117 |

NOTES:

= \$50 late fee for registration begins

! = Last day to drop for full refund

!! = Last Day to add classes

* = Last Day for complete withdrawal