

Syllabus: Math 1050 – F'08**College Algebra**

MTRF, NIB 144

Sec. 10: 11:00am (42515)

Text: College Algebra, 10th ed.

Lial, Hornsby, Schneider

Prerequisite: Math 1010 (C or better)

or ACT-Math/CPT score of 23+

Instructor: Barbara Blythin

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Office hours: M: 1:00-3:00pm

W: 9:00am-12:00noon,

and 1:00-2:00pm

and by appointment

DIXIE STATE COLLEGE COURSE OBJECTIVES:

All mathematics courses at Dixie State College 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 arithmetic, algebraic, and geometric.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and/or tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math 1050, a student will demonstrate through testing the ability to:

1. Apply function notation.
2. Determine symmetries that exist in the graph of an equation.
3. Graph polynomial functions and find their intercepts and extrema.
4. Analyze the key components of the graphs of polynomial and rational functions.
5. Compute the composition and inverses of functions.
6. Graph exponential and logarithmic functions.
7. Apply properties of exponents and logarithms in expressions and equations.
8. Solve systems of linear equations, including using determinants.
9. Solve nonlinear systems of equations and inequalities.
10. Find terms and sums of arithmetic and geometric sequences and series.
11. Compute the terms of a binomial expansion.

INSTRUCTOR EXPECTATIONS:

1. Attendance is of prime importance in any college class but especially in a mathematics class. Therefore, students should make every effort to show up.
2. Homework (including the chapter test) will be collected, graded, and returned on each test day. Late homework will receive half-credit; too-late homework will receive no credit.
3. A graphing calculator is required.
4. Cheating will not be tolerated and may result in an F.
5. Without prior permission or a documented excuse, make-up test grades will be reduced by 10%.
6. Occasional pop quizzes may be given; points will be added to the homework points.

GRADING:

6 tests @ 100 points each

6 HWs @ 15 points each

Final exam @ 200 points

For a total possible 905 points

Grades by percentages:

A: 93-100; A-: 90-92; B+: 87-89; B: 83-86;

B-: 80-82; C+: 77-79; C: 70-76; C-: 65-69

D: 60-64; F: <60

NOTE: All information sent from the college or the instructor will be sent to your Rebelmail account. You MUST check that email account at least once a week. You are responsible for knowing what is contained within those messages.

NOTE: If you are a student with a documented physical or mental impairment that will substantially limit a major life activity, please contact the Disability Resource Center on the main campus. The Center Coordinator and staff will assist you in analyzing your eligibility for services. If you are deemed eligible, reasonable accommodations that are appropriate to your disability will be assigned. If you have any questions concerning this process, please contact the Center at 652-7516. We are located in the Student Services Center, room 201, of the Edith Whitehead Building.

TENTATIVE HOMEWORK SCHEDULE – F'08

Note: eoo means Every-Other Odd-numbered homework problem, i.e., 1, 5, 9, 13, 17, . . .

| Date Assigned | Section | Assignment |
|----------------|---------------|--|
| T 8/26 | R.3 | eoo 13-25, 33-93 |
| R 8/28 | R.4 | 13; eoo 21-73, 81-103 |
| F 8/29 | R.5 | eoo 1-69 |
| T 9/2 | R.6 | eoo 25-33, 53-69, 81-101 |
| R 9/4 | R.7 | eoo 37-89; odds 99-103 |
| F 9/5 | Review | |
| M 9/8 | TEST 1 | |
| T 9/9 | 1.1 | eoo 9-25, 41-69 |
| R 9/11 | 1.2 | eoo 1-45 |
| F 9/12 | 1.3 | eoo 17-97 |
| M 9/15 | 1.4 | eoo 13-85 |
| T 9/16 | 1.5 | eoo 5-49, 57 |
| R 9/18 | 1.6 | eoo 9-85, 93-97 |
| F 9/19 | 1.7 | eoo 13-49, 61-89; 95 |
| M 9/22 | 1.8 | eoo 9-65, 73-89 |
| T 9/23 | Review | |
| R 9/25 | TEST 2 | |
| F 9/26 | 2.1 | eoo 13-57 |
| M 9/29 | 2.2 | eoo 9-29, 37-49 |
| T 9/30 | 2.3 | eoo 17-83 |
| R 10/2 | 2.4 | eoo 13-77 |
| F 10/3 | 2.5 | eoo 5-65 |
| M 10/6 | 2.6 | eoo 13-53 |
| T 10/7 | 2.7 | eoo 25-73 |
| R 10/9 | 2.8 | eoo 1-93 |
| F 10/10 | Review | |
| M 10/13 | TEST 3 | |
| T 10/14 | 3.1 | eoo 13-65 |
| M 10/20 | 6.1 | eoo 5-45, 53 (last day to drop/audit) |
| T 10/21 | 6.2 | eoo 5-49 |
| R 10/23 | 3.5 | eoo 17-45 |
| F 10/24 | 3.6 | eoo 13-45 |
| M 10/27 | Review | |
| T 10/28 | TEST 4 | |

(continued)

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| R | 10/30 | 4.1 | eo0 41-73, 89 |
| F | 10/31 | 4.2 | eo0 13-33, 45-85 |
| M | 11/3 | 4.3 | eo0 13-37, 53-85 |
| T | 11/4 | 4.4 | eo0 29-85 |
| R | 11/6 | 4.5 | eo0 5-53, 61-89 |
| F | 11/7 | 4.6 | eo0 1-45 |
| M | 11/10 | Review | |
| T | 11/11 | TEST 5 | |
| R | 11/13 | 5.1 | eo0 9-41, 49-77 |
| F | 11/14 | 5.3 | eo0 1-29, 37-53, 61-77 (last day for complete withdrawal) |
| M | 11/17 | 5.5 | eo0 9-57 |
| R | 11/20 | 5.6 | eo0 29-81 |
| F | 11/21 | 7.1 | eo0 1-9, 25-45, 53-77 |
| M | 11/24 | 7.2 | eo0 1-61, 69-73 |
| T | 11/25 | 7.3 | eo0 5-29, 37-45, eo0 57-77 |
| M | 12/1 | Review | |
| T | 12/2 | TEST 6 | |
| R | 12/4 | 7.4 | eo0 1-49 |
| F | 12/5 | 7.6 | eo0 21-61 |
| M | 12/8 | 7.7 | eo0 1-33 |
| T | 12/9 | Evaluations and Review for Final Exam | |
| R | 12/11 | Review for Final Exam | |
| F | 12/12 | Review for Final Exam | |
| M | 12/15 | FINAL EXAM, 10am-12noon | |

MATH IS NOT A SPECTATOR SPORT

1. Plan to spend a minimum of two hours of study time for each hour of class time.
2. Before attempting the assigned homework, read your notes and the relevant section. Follow each step in each example. Work the examples yourself, adding any missing steps.
3. Work each homework problem carefully, checking answers as you go. If you have the wrong answer, work the problem again.
4. Homework is the most important part of the class. Most learning takes place not in class but when doing homework.
5. Read the section that will be covered the next day. Note any confusing areas.
6. When the instructor covers the new material, see if the confusing areas have been explained. If not, ask questions!
7. Attend class every day. It's hard to learn math on your own.
8. The solution manual that accompanies the text is designed for occasional clarification, not for homework copying.
9. Use the tutoring center frequently.
10. The instructor's office hours are for you (those of you who have been to class and have attempted the homework). You do not need an appointment. Make an appointment if you can't make the scheduled times.
11. You may feel that the tests are too long. However, you must not only know the material but also know it well enough to work quickly.
12. Save your tests; they provide a good review for the final exam. You'll receive an answer test when a test is returned.
13. If any test is curved, every person's grade receives the curve. You are competing with yourself, not with other class members.