

SYLLABUS – MATH 1050 – COLLEGE ALGEBRA SPRING SEMESTER 2011

10:00 Class, Math 1050-06, Room # 106, CRN #24356, M, T, TH, F

11:00 Class, Math 1050-08, Room #106, CRN #24359, M, T, TH, F

Instructor: Mr. Brooks, **Home Phone:** 688-8594, **e-mail:** brooks@dixie.edu

Office: NIB 134 **Hours:** 9:00 - 9:50am, Noon - 12:15pm

Text: College Algebra (10th Edition) **Authors:** Lial, Hornsby, Schneider

Pre-Requisite: C or better in Math 1010, (last 2 yrs) or ACT score of **23** or higher,
or pass the PAL part of the CPT test at the Testing Center

COURSE OBJECTIVES:

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

1. Apply functional notation.
2. Determine symmetries that exist in the graph of an equation.
3. Graph polynomial functions and find their intercepts, maxima and minima.
4. Analyze the key components of the graph of polynomial and rational functions.
5. Compute the composition and inverses of functions.
6. Graph exponential and logarithmic functions.
7. Apply properties of logarithms and exponents in simplifying expressions and solving equations.
8. Solve systems of linear equations using substitution, elimination, matrices and Cramer's rule.
9. Perform matrix arithmetic, including determinants.
10. Solve non-linear systems of equations and inequalities.
11. Find terms and sums of terms of arithmetic and geometric sequences and series.
12. Compute the terms of a binomial expansion.

All students will:

1. Perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
2. Complete application problems using a variety of methods including arithmetical, algebraic and geometric methods.
3. Make inferences from mathematical models that include formulas, graphs and tables.
4. Solve real-life applications that use a variety of mathematical functions.

CLASS ATTENDANCE:

Please do not be absent from class. Punctuality is expected do not be tardy. All cell phones must be deactivated during class time. Every class, information will be presented that will be reflected on the chapter tests. Any assigned problem will be worked for the class if you have a question on set up or technique. You will be held accountable for information presented during class time. Absence is not an excuse. Hand in assignment **prior** to any planned absence, if not it will be graded as late.

DISABILITIES: If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your Professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the Center on the main campus to follow through with and receive assistance in the documentation process to determine the appropriate accommodations relate to their disability. You may call 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973..

CALCULATORS: TI-83 Plus, TI-84, TI-84 Plus, TI-89 (calculus-bound)

ASSIGNED PROBLEMS:

Assigned problems will be given for each concept, (each class period). An assignment must be handed in each day for credit. You will be expected to read the text, attempt all homework problems, study for exams and ask questions in class thus getting extra help. Problems will be graded for the work shown as well as the final answer. Assignments should be considered a minimum and most students should work additional problems to reach mastery. **Late work** may be handed in anytime until the week before the final and will be given **half credit**. All work must be neat, space between problems and all figuring (work done to arrive at the solution) **must** be shown. Top of first page must show your NAME, DATE, CLASS and the CHAPTER and SECTION NUMBER. If you would like the assignment returned, write "**PLEASE RETURN**" by your name. Many problems will **require a Graphing Calculator** for completion. Please have one.

EXAMINATIONS:

The mathematics program has the following policy concerning examinations: Examinations will be given according to the schedule in the syllabus and if all exams are taken as scheduled, upon making arrangements with your instructor you may retake a particular exam to improve the score, the **last score** received will be recorded. If an exam is missed that test may be made up as a retake. A final comprehensive exam will be given at the end of the semester. Early finals will not be given. **If you cannot take the final as scheduled, check out of the class now.** Cheating will not be tolerated and may result in an F.

GRADING:

70% of your grade will be determined by chapter tests and the final.

(Each chapter test will be worth 100 points. The final will be 200 points.)

30% of your grade comes from your homework. An assignment will be given each day and due the following day. Graded as: 85% correct or better will be a "+" (4 points), more than 50% correct will be a "√" (3 points), some correct work will be an "X" (1 point).

STUDENT PROGRESS (GRADE):

You will be able to figure your class grade every time a graded test is returned during the semester: You will be given 4 numbers, the first three are the number of +'s (4), √'s (3) and x's(1) you have earned on your homework.

1. Add up your homework points (the number of 4's times 4 added to the number of 3's times 3 added to the number of 1's). Divide this number by the number of assignments given (the arithmetic mean) and times this result by **7.5**, save this result.
2. The fourth number is the total points you have earned on your tests, including this test. Divide this total by the number of tests given (the arithmetic mean) and times this result by **0.70**, save this result.
Add the results of # 1, and # 2. Look up the percentage listed below, this will be your present grade.

Grades will be assigned as follows:

| | | | | | |
|------------|---|-----------|----|-----------|----|
| 94% - 100% | A | 90% - 93% | A- | 87% - 89% | B+ |
| 83% - 86% | B | 80% - 82% | B- | 77% - 79% | C+ |
| 73% - 76% | C | 70% - 72% | C- | 65% - 69% | D+ |
| 60% - 64% | D | 0% - 59% | F | | |

MATH 1050 ASSIGNMENT SCHEDULE SPRING SEMESTER 2011

| MONDAY | TUESDAY | THURSDAY | FRIDAY |
|--|-----------------------|-------------------|---|
| 1/10 R.4 | 1/11 1.1 | 1/13 1.2 | 1/14 1.3 |
| 1/17 No School | 1/18 1.4 | 1/20 1.5 | 1/21 1.6 |
| 1/24 1.7 | 1/25 1.8 | 1/27 Review Ch 1 | 1/28 Ch 1 Exam |
| 1/31 2.1 | 2/2 2.2 | 1/3 2.3 | 1/4 2.4 |
| 2/7 2.5 | 2/8 2.6 | 2/10 2.7 | 2/11 2.8 |
| 2/14 Review Ch 2 | 2/15 Ch 2 Exam | 2/17 3.1 | 2/18 3.2 |
| 2/21 No School | 2/22 3.3 | 2/24 6.1 | 2/25 6.2 |
| 2/28 6.3 Mid Term Gds | 3/1 3.6 | 3/3 Review Ch 3&6 | 3/4 Ch 3& 6 Exam |
| 3/7 4.1 | 3/8 4.2 | 3/10 4.3 | 3/11 4.4 |
| 3/14 Spring Break | 3/15 Spring Break | 3/17 Spring Break | 3/18 Spring Break |
| 3/21 4.5 | 3/22 4.6 | 3/24 Review Ch 4 | 3/25 Ch 4 Exam |
| 3/28 5.1 | 3/29 5.1 & 5.2 | 3/31 5.3 | 4/1 5.4 |
| 4/4 5.5 | 4/5 5.6 | 4/7 Review Ch 5 | 4/8 Ch 5 Exam |
| 4/11 7.1 | 4/12 7.2 | 4/14 7.3 | 4/15 7.4 |
| 4/18 7.6 | 4/19 7.7 | 4/21 Review Ch 7 | 4/22 Ch 7 Exam |
| 4/25 Review Final | 4/26 Review Final | 4/28 Review Final | 4/29 Final 10am Class 9:30am - 11:30am |
| 5/2 Final 11am Class 10:00am - Noon | | | |

To obtain your own personal copy of the 1050 Syllabus go to: dixie.edu/math, select **current syllabi**, follow instructions (**Spring, 2011, 1050** then select get syllabi) and brooks.