

SYLLABUS-MATH 1050-51 COLLEGE ALGEBRA/PRECALCULUS

SPRING SEMESTER, 2009 M W 5:15-6:55 pm

Instructor: **ADINA IONITA**

Credits: 4 Hours

COLLEGE ALGEBRA

Tenth Edition

Lial, Hornsby, Schneider

Office: **NIB 156 879- 4260**

Hours: **9-11 daily**

or by appointment

Email: **aionita@dixie.edu**

Text:

1. OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college, and 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.

Math 1050 is designed for students majoring in science or engineering who will need Calculus and/or Physics.

Upon successful completion of this course, the students will demonstrate through testing 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. Solve non-linear systems of equations and inequalities.
10. Find terms and sums of terms of arithmetic and geometric sequences and series.
11. Compute the terms of a binomial expansion.

(Prerequisite: C or better in Math 1010 or ACT score of 23 or higher)

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 for 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.

2. CALCULATORS: A scientific calculator is required and a graphing calculator less than TI 83/84 is allowed.

3 DMAIL: Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

4. EXAMINATIONS: Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of the instructor, and only if prior arrangements have been made. A final comprehensive exam will be given at the end of the term. The lowest test score can be replaced with the percent earned on the final exam.

5. ASSIGNMENTS: Homework assignments are to be done each day, but only part of it will be collected on the test day.

6. HELP: I am available for help during posted office hours, and other times by appointment. There are also tutors available in the Browning Resource Center.

7. GRADES: Each test is worth 100 points, the homework is worth 200 points, and the final exam is worth 200 points for a total of 1000 possible points. Grades will be assigned as follows:

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

ASSIGNMENT SCHEDULE

JAN	05	R3	11-27 EOO, 33-89 EOO			3.2	1-33 EOO, 15, 41,
		R.4	1-73 EOO, 79-103 EOO	43, 45			
W	07	R.5	1-69 EOO	W	25	3.3	5, 7, 9, 17, 19, 21,
		R.6	1-97 EOO				27, 49
		R.7	1-93 EOO, 99-103			3.6	1, 3, 7-10, 11-39
ODD				EOO			
M	12		REVIEW	MAR	02	6.1	1-29 EOO, 31-45 ODD,
			TEST 1				51
W	14	1.1	1-9 ODD, 13-65 EOO			6.2	1-13 EOO, 15-39
		1.2	1-11 ODD, 15-39	ODD, 43			
EOO				W	04		REVIEW
M	19		NO SCHOOL				TEST 4
W	21	1.3	1-7 ODD, 9-97 EOO	M	09	4.1	1-17 ODD, 19-26, 35-
		1.4	1-9 ODD, 13-81				79 EOO
EOO						4.2	1-25 EOO, 49-77
		1.5	1-5 ODD, 9-45 EOO, 57	ODD			
M	26	1.6	1-97 EOO				
		1.7	1-53 EOO, 55-59,	W	11	4.3	1-12, 13-29 ODD, 59-87
			61-89 EOO, 91,	ODD			
95							91
		1.8	1-8, 9-65 EOO, 67-71,			4.4.	1-9, 13-85 EOO
			73-89 EOO	M-F	16-20		NO SCHOOL
W	28		REVIEW	M	23	4.5	1-69 EOO, 71-75
			TEST 2			4.6	1-4, 5-41 EOO
FEB	02	2.1	13-57 EOO	W	25		REVIEW
		2.2	3-27 EOO, 41, 45, 49				TEST 5
W	04	2.3	1-13 EOO, 17-22, 23-	M	30	5.1	9-77 EOO
83 EOO						5.3	1-25 EOO, 57-65 ODD
		2.4	1-6, 9-21 EOO, 25-	APR	01	5.5	9-57 EOO
28,			31-55 EOO, 59-65	M	06	5.6	1-61 EOO, 71-75, 79
						7.1	3-43 EOO, 53-73 EOO,
M	09	2.5	1-4, 5-57 EOO				25, 77, 79
		2.6	1-10, 11-39 EOO, 43-			7.2	1-61 EOO, 69, 73
49 ODD				W	08	7.3	1-77 EOO
W	11	2.7	1-37 ODD, 41-65			7.4	1-45 EOO, 47, 49
EOO, 67-73				M	13		REVIEW
		2.8	1-85 EOO				TEST 6
M	16		NO SCHOOL	W	15	7.6	1-61 EOO
W	18		REVIEW			7.7	1-33 EOO
			TEST 3	M	20		FINAL REVIEW
M	23	3.1	1, 3, 5-8, 12, 13-25	W	22		FINAL REVIEW
ODD							
			27-46, 47-59 EOO				

M 27 FINAL EXAM 5:00-7:00pm

IMPORTANT DATES: Go to
<http://new.dixie.edu/reg/?page=spring2009>