43081

DIXIE STATE COLLEGE - - Fall 2011
MATHEMATICS DEPARTMENT

Course Number: MATH 1065
Course Title: Precalculus with Trigonometry
Section Number: 2
Meeting Time: M,T,W,R,F 11:00 – 11:50
Room Number: NIB 136
Aug 22 to Dec 16
Instructor: Ross Decker
Office Room Number: NIB 139
Office Phone Number: 652-7763
Office Hours: 8 to 9 daily, or by appointment
Text: PRECALCULUS Concepts Through Functions
Author: Michael Sullivan, Michael Sullivan III
Prerequisites: C or better in **MATH 1050** or ACT Math score of 25 or higher.

Exam dates and points possible are as follows:

Exam 1	Aug 31 – Sep 2	100 points
Exam 2	September 12-14	100 points
Exam 3	September 19-21	100 points
Exam 4	Sep 9 – Oct 3	100 points
Exam 5	October 7-11	100 points
Exam 6	October 20-24	100 points
Exam 7	October 26-28	100 points
Exam 8	November 8-10	100 points
Exam 9	November 17-21	100 points
Exam 10	Nov 30 – Dec 2	100 points
Exam 11	December 7-9	100 points
Final Exam	Dec 16 (10:00 – 12:00)	200 points
Homework	(5 points each)	330 points
TOTAL POINTS:		1630 points

ATTENDANCE: Any student who misses the first two days of class will be dropped from the class.

DISHONESTY: If it is determined that you cheated, you will receive a zero for that exam. If cheating occurs a second time, you will receive an F for the course.

DISABILITIES: If you are a student with a medical, psychological, or learning disability, and would like accommodations or think you might have a disability, contact the Disability Resource Center (652-7516) in the Student Services Center, Room 201. The Disability Resource Center will determine eligibility based on your professional documentation and determine the appropriate accommodations related to your disability.

GRADES: Your semester grade will be based on the following scale: **A**(92-100%), **A-**(89-92%), **B+**(86-89%), **B**(82-86%), **B-**(79-82%), **C+**(76-79%), **C**(72-76%), **C-(**69-72%), **D+**(66-69%), **D**(62-66%), **D-**(59-62%), **F**(0-59%)

GENERAL REMARKS: It is the responsibility of each student to make time each day to read the text, attempt all homework problems, study for exams, and get extra help. Your work should be neat and easily read. Problems will be graded more for the work shown than for the final answer. Assignments should be considered a minimum and many students should work additional problems to reach mastery. Course schedules, assignments, and exam dates are subject to change as circumstances dictate.

COURSE OBJECTIVES

All mathematics classes at Dixie State College will:

1. Require students to perform mathematical processes including fractions, percentages, decimals, proportions/rations, algebraic equations and/or calculus techniques.
2. Provide students with application problems that use a variety of methods including arithmetical, algebraic, and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of MATH 1065, a student will demonstrate through testing, the ability to:

- Apply functional notation.
- Determine symmetries that exist in the graph of an equation
- Graph polynomial functions and find their intercepts, maxima, and minima.
- Analyze the key components of the graph of polynomial and rational functions.
- Compute the composition and inverses of functions.
- Graph exponential and logarithmic functions.
- Apply properties of logarithms and exponents in simplifying expressions and solving equations.
- Solve systems of linear equations using substitution, eliminations, matrices, and Cramer's Rule.
- Perform matrix arithmetic, including determinants.
- Solve non-linear systems of equations and inequalities
- Find terms and sums of terms of arithmetic and geometric sequences and series.
- Compute the terms of a binomial expansion.
- Manipulate and evaluate trigonometric functions.
- Use proofs working with the trigonometric functions to prove trigonometric identities.
- Demonstrate the ability to use trigonometric identities to solve real world applications.
- Use vectors geometrically and algebraically to solve problems.

MON	TUE	WED	THUR	FRI
8/22	**8/23**	**8/24**	**5/25**	**8/26**
R.1, R.2	R.3, R.4	1.1	1.2	1.3, 1.4
8/29	**8/30**	**8/31**	**9/1**	**9/2**
1.5	1.7	Ch 1 Review	2.1, 2.2	2.3
9/5	**9/6**	**9/7**	**9/8**	**9/9**
Labor Day	2.4	2.5, 2.6	2.7	2.8
9/12	**9/13**	**9/14**	**9/15**	**9/16**
Ch 2 Review	3.1	3.2	3.3	3.4
9/19	**9/20**	**9/21**	**9/22**	**9/23**
Ch 3 Review	4.1	4.2	4.3	4.4
9/26	**9/27**	**9/28**	**9/29**	**9/30**
4.5	4.6	4.7, 4.8	Ch 4 Review	5.1
10/3	**10/4**	**10/5**	**10/6**	**10/7**
5.2	5.3	5.4	5.5	Ch 5 Review
10/10	**10/11**	**10/12**	**10/13**	**10/14**
6.1	6.2	6.3	**F A L L**	**B R E A K**
10/17	**10/18**	**10/19**	**10/20**	**10/21**
6.4	6.5	6.6, 6.7	Ch 6 Review	7.1, 7.2
10/24	**10/25**	**10/26**	**10/27**	**10/28**
7.3	7.4	Ch 7 Review	8.1	No Math Class
10/31	**11/1**	**11/2**	**11/3**	**11/4**
8.2	8.3	8.4	8.6	No Math Class
11/7	**11/8**	**11/9**	**11/10**	**11/11**
8.7	Ch 8 Review	9.2	9.3	9.4
11/14	**11/15**	**11/16**	**11/17**	**11/18**
9.6	Career Day	9.7	Ch 9 Review	10.1
11/21	**11/22**	**11/23**	**11/24**	**11/25**
10.3	10.5	**T HA N K S G I V I N G**		
11/28	**11/29**	**11/30**	**12/1**	**12/2**
10.6	10.7	Ch 10 Review	11.1	11.1
12/5	**12/6**	**12/7**	**12/8**	**12/9**
11.3	11.5	Ch 11 Review	Review for Final	Review for Final
5/2				**12/16**
				Final Exam
				10:00 – 12:00

R.1 1-53 eoo
R.2 1-65 eoo
R.3 1-93 eoo
R.4 13-41, 19, 25
1.1 17-85 eoo
1.2 1-8, 9-27o
1.3 13-69eoo
1.4 9-16, 25-37o
1.5 7-18, 39-67eoo
1.7 3-39eoo
2.1 13-45eoo
2.2 17, 18
2.3 13-93eoo
2.4 19-53eoo
2.5 3-21o
2.6 3-17o
2.7 9-33eoo
2.8 17-61eoo
3.1 15.25o, 41-93eoo
3.2 13-23o, 43-53o
3.3 7-43eoo
3.4 19-47o
4.1 13-57eoo
4.2 11-79eoo
4.3 33-81eoo
4.4 9-53eoo
4.5 13-89eoo
4.6 5-57eoo
4.7 9-49eoo
4.8 1-12
5.1 1-29eoo, 39, 41-93eoo
5.2 13-93eoo
5.3 11-87eoo
5.4 21-57eoo
5.5 1-11o, 31-35, 39-41, 45
6.1 7-51eoo
6.2 9-77eoo
6.3 11-79eoo
6.4 19-87eoo
6.5 23-67eoo
6.6 7-27o
6.7 11-33o
7.1 9-57eoo
7.2 9-41eoo
7.3 9-45eoo, 47
7.4 5-21eoo
8.1 9-81eoo
8.2 13-27o, 39-59eoo
8.3 11-59eoo
8.4 9-69eoo, 73,75,77,81,89
8.5 7-25o
8.7 23-47eoo
9.2 11-18, 19-71eoo
9.3 13-16, 17-69eoo, 71
9.4 15-18, 19-59eoo
9.6 7-35eoo
9.7 7-25o
10.1 9-69eoo
10.3 7-14, 15, 17, 33
10.5 5-45eoo
10.6 5-41eoo
10.7 11-51eoo, 53
11.1 9-77eoo
11.2 15-59eoo
11.3 19-67eoo, 88, 90
11.5 5-41eoo

Testing Center Hours

Monday - Friday	Saturday	Sunday
9 AM to 10 PM	2 PM to 10 PM	4 PM to 10 PM

Other Useful Stuff

College approved absences: Dixie College Policy explains in detail what needs to happen if you anticipate being absent from class because of a college-sponsored activity (athletic events, club activities, field trips for other classes, etc). Please read this information and follow the instructions carefully! The policy can be found at: www.dixie.edu/humanres/policy/sec5/523.html

Dmail: Important class and college information will be sent to your Dmail 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 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.

Important DSC dates to remember

Mon, Aug 22	Classwork Starts
Wed, Aug 24	Last day to add without a signature
Mon, Aug 29	Drop fee begins ($10 per class)
Mon, Sep 5	Labor Day
Tue, Sep 6	$50 Late registration/payment fee
Mon, Sep 12	Last day for refund
Mon, Sep 12	Last day to drop without a "W" grade
Fri, Sep 16	Last day to add classes
Fri, Sep 30	Last day to apply for graduation
Thurs, Fri, Oct 13-14	Semester break
Mon, Oct 17	Last day to drop or audit classes
Fri, Nov 11	Last day for complete withdrawal
Tue, Nov 15	Career Day
Wed-Fri, Nov 23-25	Thanksgiving break
Fri, Dec 9	Last day of classes
Mon-Fri, Dec 12-16	Final exams

Disability Accommodations: Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza Building. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

College resources: Several college resources are available to help you succeed. Check out the links for each one to get more information.

If you need help understanding the content of your courses, go to the Tutoring Center located in

the Browning Learning Center, Room 105. There is a schedule of what courses have tutors at what times outside the door. You can also visit them online at http://dsc.dixie.edu/tutoring/

If you need help writing papers, go to the Writing Center in the Browning Learning Center, Room 105. You can also visit them online at http://new.dixie.edu/english/dsc_writing_center.php

If you need to use a computer to do schoolwork on campus, go to the Computer Center in the Smith Computer Center or the Library basement.

If you are assigned to take a test in the Testing Center, go to the North Plaza. You can get information on their website at http://new.dixie.edu/testing/

The Library has all kinds of information and resources. Visit the Val Browning Library or go to the library website at http://library.dixie.edu/

Classroom expectations: It is the responsibility of an instructor to manage the classroom environment to ensure a good learning climate for all students. This means not talking when the teacher is talking, following instructions, and speaking and acting respectfully to the professor and fellow students. If your behavior is disruptive, I will first let you know verbally that you are behaving inappropriately. If it continues, I will send you written notice that your behavior must change. As a last resort, I will drop you from the class. For more details, please see the disruptive behavior policy at: http://www.dixie.edu/humanres/policy/sec3/334.html

Academic integrity: I believe that most students are honest, and I don't want to punish everyone for the few that aren't. However, I will not tolerate cheating, and if I discover that it has occurred, a zero grade will be given for that assignment or exam, and you will not be allowed to make it up. Repeated or aggravated offenses will result in failing the course.

Any time you take credit for work you did not do, you are cheating. This includes getting the answers to homework problems from someone else, copying information from a library or internet source and presenting it as if it were your own words (plagiarism), looking at someone else's answers on an exam, and asking someone who has already taken a test about what questions it contains.

I have tried to design assignments and exams to minimize the temptation to cheat, but it is not my job to prevent you from cheating. If you cheat and are not caught, it doesn't mean that you "beat the system." It means you violated the Student Code and forfeited your integrity, whether or not you are caught. You will pay the price, sooner or later. Having served on the committee that disciplines students for academic dishonesty, I can promise you that it is better to fail an assignment or even a class than to cheat and lose the chance to continue your education. (See “Student Code” http://library.dixie.edu/policies/studentcodesectionfour.pdf page 8).