

Course Number: MATH 1065**Section Number:** 1**Room Number:** SNOW 125**Instructor:** Ross Decker**Contact Info:** 652-7763, decker@dixie.edu**Text:** PRECALCULUS Concepts Through Functions**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	January 23-27	100 points
Exam 2	February 3-5	100 points
Exam 3	February 10-12	100 points
Exam 4	February 23-25	100 points
Exam 5	March 3-5	100 points
Exam 6	March 20-24	100 points
Exam 7/8	April 6-8	100 points
Exam 9	April 14-16	100 points
Exam 10/11	April 27-29	100 points
Final Exam	May 1 (9:30 – 11:30 AM)	200 points
Homework	(5 points each)	330 points
TOTAL POINTS:		1430 points

Course Title: Precalculus with Trigonometry**Meeting Time:** M,T,W,R,F 10:00 – 10:50

Jan 12 to May 1

Office Room Number: SNOW 142**Office Hours:** 9 to 10 daily, or by appointment**Author:** Michael Sullivan, Michael Sullivan III**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 suspect or are aware that you have a disability that may affect your success in the course, you are strongly encouraged to contact the Disability Resource Center (DRC) located in the North Plaza Building. The disability will be evaluated and eligible students will receive assistance in obtaining reasonable accommodations. Phone # 435-652-7516.**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/ratios, 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
1/12 R.1, R.2	1/13 R.3, R.4	1/14 1.1	1/15 1.2	1/16 1.3
1/19 MLK Day	1/20 1.4	1/21 1.5	1/22 1.7	1/23 Ch 1 Review
1/26 2.1, 2.2	1/27 2.3	1/28 2.4	1/29 2.5, 2.6	1/30 2.7
2/2 2.8	2/3 Ch 2 Review	2/4 3.1	2/5 3.2	2/6 3.3
2/9 3.4	2/10 Ch 3 Review	2/11 4.1	2/12 4.2	2/13 4.3
2/16 President's Day	2/17 4.4	2/18 4.5	2/19 4.6	2/20 4.7, 4.8
2/23 Ch 4 Review	2/24 5.1	2/25 5.2	2/26 5.3	2/27 5.4
3/2 5.5	3/3 Ch 5 Review	3/4 6.1	3/5 6.2	3/6 6.3
3/9 S	3/10 P	3/11 R	3/12 I	3/13 N
3/16 6.4	3/17 6.5	3/18 6.6	3/19 6.7	3/20 Ch 6 Review
3/23 7.1	3/24 7.2	3/25 7.3	3/26 7.4	3/27 8.1
3/30 8.2	3/31 8.3	4/1 8.4	4/2 8.5	4/3 8.7
4/6 Ch 7/8 Review	4/7 9.2	4/8 9.3	4/9 9.4	4/10 9.6
4/13 9.7	4/14 Ch 9 Review	4/15 10.1, 10.3	4/16 10.5	4/17 10.6
4/20 10.7	4/21 11.1	4/22 11.2	4/23 11.3	4/24 11.5
4/27 Ch 10/11 Review	4/28 Review for Final	4/29 Review for Final	4/30 Reading Day	5/1 Final Exam 9:30 - 11:30

R.1 1-53 eoo
R.2 1-65 eoo
R.3 1-93 eoo
R.4 13-41eoo, 19
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 13-49eoo
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
9 AM to 10 PM

Saturday
2 PM to 10 PM

Sunday
4 PM to 10 PM