

**SPRING 2011**  
**MATH 1060**

**TRIGONOMETRY**

**CRN# 24461 (Success Academy)**

MWF 12:00 - 12:50PM (Technology Building)

Jan.10 2011 – May 05 2011 (3 credit hours)

**Instructor:** Jie Liu  
**Office Room#:** NIB147  
**Office Phone#:** 652-7983

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**Office Hours:** 11:00-11:50 MWF  
10:15-11:50 TR

**Required Materials**

- Text Book: **Trigonometry 9<sup>th</sup>** edition by Lial, Hornsby and Schneider.
- A graphing calculator is required.

**Course Description**

All mathematics classes at Dixie State 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.

The primary purpose of Math 1060 is present students opportunities for students to learn the ideas of the mathematical field of Trigonometry. This knowledge will allow students to apply this field of study in classes for Calculus, Physics and Engineering, as well as some real world applications. Although this class can be used to fulfill the general education requirements for Dixie College, it is not recommended as a singular class.

Upon successful completion of this course, a student will demonstrate through testing the ability to:

- Manipulate and evaluate trigonometric functions.
- Use proofs to work 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.

**Disabilities**

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 at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

**Dmail**

All information sent from the college or the instructor will be sent to your Dmail account. You MUST check that email account frequently. You are responsible for knowing what is contained within those messages.

**Policy for Absences Related to College Functions**

Please refer to college student policy **5.23 Attendance**.

<http://www.dixie.edu/humanres/polstu.html>

**Important dates/deadlines**

<http://www.dixie.edu/reg/calendar.html>

**Grades**

**Tests:** 4 tests total.15% each (total 60%). Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of instructor, and only if prior arrangements have been made.

**Homework:** 15% total (Refer to Assignment and tentative schedule).

Homework are to be done each day, but will only be collected at the end of each chapter. Two points will be deducted per day for late homework. Homework will be graded based on completeness and neatness. Please use your solution manual to check the correctness. Please show your work. No credit will be granted for questions without steps.

**Final comprehensive exam:** 25%.

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%)

*Enjoy your learning adventure!*

## Assignments and Tentative Schedule

Course schedules, assignments, and exam dates are subject to change as circumstances dictate. It is the responsibility of each student to attend the class and get the updated info.

Date	Lecture	Homework Assignments
<b>Week 1</b>		
M 01/10	1.1	1-129 EOO <b>First day of Class</b>
W 01/12	1.2 1.3	1-69 EOO, 62 1-81 EOO, 95-103 ODD <b>Last day to add without signature</b>
F 01/14	1.4	1-81 EOO, 85-94
<b>Week 2</b>		
M 01/17		<b>Martin Luther King day. Holiday (No class)</b>
T 01/18		<b>Drop fee begins (\$10 per class)</b>
W 01/19	2.1	1-57 EOO, 67-79 EOO, 80, 81 <i>Chapter 1 homework due</i>
F 01/21	2.2	1-6, 10-18, 32, 37-43 ODD, 58-63, 66, 71-81 ODD
<b>Week 3</b>		
M 01/24	2.3 2.4	1-5, 11-31 ODD, 40, 45-61 ODD 1-15 ODD, 21-53 EOO
T 01/25		<b>\$50 Late Registration/Payment Fee</b>
W 01/26	2.5	5-17 ODD, 19-35 EOO
F 01/28	Review	
<b>Week 4</b>		
M 01/31	<b>Test 1</b>	<b>Chapter 1 &amp; 2</b> <i>Chapter 2 homework due</i>
T 02/01		<b>Pell Grant Census/ Last day for Refund/Last day to drop without receiving a "W" grade</b>
W 02/02	3.1	1-6, 9-61 EOO, 63-81 ODD <b>(Courses dropped for non-payment)</b>
F 02/04	3.2	1-11 ODD, 13-37 EOO, 39-45 ODD, 49-65 EOO, 62 <b>Last day to add classes</b>
<b>Week 5</b>		
M 02/07	3.3	1-53 EOO, 55-73 ODD
W 02/09	3.4	3-17 ODD, 19-43 EOO, 37
F 02/11	4.1 4.2	1-12, 13-37 EOO, 41-51 ODD <i>Chapter 3 homework due</i> 1-12, 15-24, 25-57 EOO
<b>Week 6</b>		
M 02/14	4.3 4.4	1-6, 7-31 EOO, 33, 35 1-4, 5-17 EOO, 19-27 ODD
W 02/16	Review	
F 02/18	<b>Test 2</b>	<b>Chapter 3 &amp; 4</b> <i>Chapter 4 homework due</i>
<b>Week 7</b>		
M 02/21		<b>President Day. Holiday (No class)</b>
W 02/23	5.1	1-6, 7-11 ODD, 13-24, 28, 32-44, 49, 51, 53-69 EOO

F	02/25	5.2	1-77 EOO	
<b>Week 8</b>				
M	02/28	5.3	1-4, 7-63 EOO <b>Mid-term Grades Due</b>	
W	03/02	5.4	1-6, 9-65 EOO, 67-69	
F	03/04	5.5 5.6	1-6, 9-53 EOO, 57-64 1-10, 11-55 EOO	<b>Last day to drop/audit</b>
<b>Week 9</b>				
M	03/07	6.1	1-12, 13-65 EOO, 67-69	<i>Chapter 5 hwk due</i>
W	03/09	6.2	11-51 EOO	
F	03/11	6.3	2,4,7-39 EOO, 42	
<b>Week 10</b>				
M-F	03/14 - 03/18		<b>Spring Break (No class)</b>	
<b>Week 11</b>				
M	03/21	6.4	1-45 EOO	
W	03/23	Review		
Th	03/24		<b>Summer registration open to all students</b>	
F	03/25	<b>Test 3</b>	<b>Chapter 5 &amp; 6</b>	<i>Chapter 6 homework due</i>
<b>Week 12</b>				
M	03/28	7.1	1-4,5-17 EOO, 25-49 EOO	
W	03/30	7.2	1-3, 11-35 EOO	
F	04/01	7.3	3-47 EOO, 61-67 ODD, 73,74 <b>Last Day for Complete Withdrawal</b>	
<b>Week 13</b>				
M	04/04	7.4	1-4, 7-91 EOO	
W	04/06	7.5	1-29 EOO	
F	04/08	8.1 8.2	1-6, 7-107 EOO 1-3, 7-47 EOO, 53-58	<i>Chapter 7 homework due</i>
<b>Week 14</b>				
M	04/11	8.3	1-4, 5-23 ODD, 33-39	
W	04/13	8.4	1-41 EOO, 51, 53	
T	04/14		<b>Fall registration open to all students</b>	
F	04/15	8.5	1-21 EOO, 23-27 ODD, 37-40, 41-61 EOO, 73,75	
<b>Week 15</b>				
M	04/18	8.6	1-4, 5-45 EOO	
W	04/20	Review		
F	04/22	<b>Test 4</b>	Chapter 7 & 8	<i>Chapter 8 homework due</i>
<b>Week 16</b>				
M	04/25		Final Review	
W	04/27		Final Review <b>(Last day of classes)</b>	
F	04/29		<b>No Class (Final exams begin)</b>	