# Carver Christian High School

### Carver Logo BW Logo Pre-Calculus 11 Wings

### 2017 Outline

## **Teacher: Ms. J. Kim**

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http://keepitisquared.weebly.com/

Pre-Calculus 11W Overview:

***Objective:***

The objective of this course is to help students to expand on the topics introduced in previous Mathematics courses. During this class we will explore the patterns in groups of numbers called sequences and series. We solve problems using standard position, sine law and cosine law during the unit of trigonometry. We will learn several ways to solve problems involving quadratic equations including manipulating the equations and using graphing principles. We will discover the rules for including radicals into mathematical expressions, and we will examine the properties of absolute value and reciprocal functions. Lastly, we will explore the world of inequalities. There are so many ways to explore math and find solutions to our daily challenges. Just as the people applied their new skills to build the tabernacle, you too will be able to apply new skills to solve new challenges!

***Prerequisite:*** Foundations of Mathematics and Pre-Calculus 10

 ***Goals:***

It is expected that students will:

* Develop spatial sense and proportional reasoning.
* Develop trigonometric reasoning.
* Develop algebraic and graphical reasoning through the study of relations.
* Become mathematically literate (equipped to serve and lead in a technological society)
* Appreciate and value mathematics (appreciate and understand God’s wonderful creation)
* Make informed decisions as contributors to society (and make wise decisions that are pleasing to God)



## Pre-Calculus Math 11W Course Outline:

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit/Topic** | **Title** | **Chapter** | **Time Line** |
| Unit 1 | Sequences and Series | 1 | February |
| Unit 2 | Trigonometry | 2 | February |
| Unit 3 | Quadratic Functions | 3,4 | February - March |
| Unit 4 | Systems of Equations and Inequalities | 8-9 | March – April |
| Unit 5 | Functions and Equations | 5-7 | April – May |
| Unit 6 | Exam Preparation | N/A | May – June |
| **Total Hours** | 120+ |

Course Resources:

*Pre-Calculus 11*, 1st Ed. Toronto, McGraw-Hall Ryerson, 2011.

Assessment:

|  |  |
| --- | --- |
| ***Marks for each Report*** | **% of Term** |
| Homework/Projects | 15 |
| Quizzes | 35 |
| Tests | 50 |
| Total: | 100 |
|  |  |

 \*mark distribution is flexible and may vary according to projects assigned during the term.

Final Mark Breakdown:

A 86-100% …Excellent

B 73-85% …Very Good

C+ 67-72% …Good

C 60-66% …Fair

C- 50-59% …Poor

F 0-49% …Failing Grade

Term 3 40%

Term 4 40%

Final Exam 20%

Total: 100%

Materials:

* 3-ringed Binder (1.5-2 inches)
* pencils, eraser, blue/black pen, red pen
* student planner
* TI-83+, TI-84+, or TI-Nspire graphing calculator (and a Scientific Calculator, if you have one)
* loose leaf graph paper and loose leaf lined paper
* dividers

Expectations:

1. **Show UP!**

I will expect that when you are here, you are here to get some work done. Everyone is to try their best. If you are not working to the best of your abilities, the teacher has the right to move the student to a more suitable location or keep the student in during lunch or after school. Further action may result if there is no improvement.

1. **Keep UP!**

Try to stay up to date on the work we do in class. I am here at lunch and after school for extra help if you ever need any! It is YOUR responsibility to catch up on all missed work and complete all assignments when you are absent. Phone a "Class Buddy" to get missing assignments or check the class website. Also use your time wisely in class!

1. **Be Ready!**

Bring all materials (pencil, calculator, etc.) to class every day and be prepared in your own seat to start class.

1. **Respect!**

Everyone must respect each other and everything in the classroom. Listen attentively when another person is talking (e.g. teacher, classmate) and watch your language!

1. **Electronics (Music players, Cell Phones, smart watches etc…)**

Please be respectful with your electronics. I should not see a cell phone or hear one especially during note taking! Ear-buds are not worn or hung around your ear during note taking as well!

Note: Smart watches are removed when writing a test or a quiz! The time will be posted for you

1. **Eating in class**

You are not allowed to eat in class but there can be some exceptions. Please ask me first before thinking of eating. Also no chewing gum in the class! I am not responsible to clean up after your garbage! I should not see wrappers, empty cans or juice containers left behind!

1. **Lateness and Absences**

Please do not show up to class late all the time. If you have to be away, please bring a signed note from home explaining your absence on your FIRST day back. No note means you SKIPPED class and a phone call or email will be sent home!

1. **DO NOT MISS A TEST!!!** You will receive a ZERO on any test or assignment that you miss due to an unexplained absence. Tell me BEFORE THE TEST to let me know that you will not attend. Bring a signed note on the FIRST DAY back.
2. Any cheating that is detected on assignments, tests, or quizzes will result in a score of 0%. A meeting with your parents and administrator will also take place.

Homework Buddy #1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Phone #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Homework Buddy #2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Phone #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Welcome to Pre-Calculus Mathematics 11 Wings!***

**RESPECT…**

**Yourself,**

**Your classmates,**

**Your teacher,**

**Your own learning &**

**Your classroom.**