**Secondary Math III/Pre-Calculus 2017-2018**

**Disclosure Statement**

**Terri Taylor: Rm. L-14**

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**Welcome!!!**

I want all of you to do well and succeed in our class. I will do my part of being prepared and ready to teach and expect you to come prepared and ready to learn. I hope to provide a classroom where you will feel free to ask questions to increase your understanding.

**How can I do well in this class?**

**BE HERE!**. Missing class will affect your grade as it is easy to get behind and difficult to catch up. Truancies, tardies, and absences will also affect your grade as explained in the **Timpview High School Attendance Policy** in the Timpview Handbook. You may earn an extra 3% by having no tardies and no absences per term.

**What materials do I need for class EVERYDAY?**

**Textbook SM3**: Big Ideas, *Integrated Mathematics III,* By Ron Larson and Laurie Boswell

**Textbooks Pre-Calculus**: College Algebra 4th Edition, By Stewart, Redlin and Watson

 College Trigonometry 5th Edition, By Aufmann, Barker and Nation

Each student will need a folder or binder that they must bring to class EVERY DAY. Use this to organize your notes, assignments, and tests. You will also need something to write with, we take notes everyday!

**Scientific Calculator** is **required** for this course.

 (You can purchase one on your own or rent one from the school for $5)

**Graphing Calculator** is **optional** for this course.

 (You can purchase one on your own or rent one from the school for $20.)

**Class Rules:**

* **Respect, Self, Others and Property.**
* **Eating** in class is ok if it is dry food (gum is wet ☺) or a drink with a lid. If it is distracting anyone in the class (including yourself and the teacher) you will be asked to put it away.
* **Be ready to start class** when the bell rings… you are **tardy** if you are not in your seat when the bell rings. Come to class prepared with your own supplies.
* **Be involved** in classroom activity.
* **Electronic devices** such as cell phones; I-pods, smart watches etc. are not allowed in the classroom. Inappropriate items will be confiscated
* **NEVER GIVE UP!** I’m not going to give up on you so, don’t give up on yourself. If you are determined, then you can succeed at anything. I’ll work with you!
* **Hall passes.** If you ask to go while I am teaching I will say no, so plan ahead. I do not limit the amount of times you can use a hall pass. Each student needs to be responsible and use the time wisely when they leave. I will limit if I feel you are taking advantage!
* **Academic Integrity:**

 **Do your own work.** Working together and helping each other is encouraged on homework, but blatant copying is not. Quizzes and Tests must be done alone, no help from others.

 **If you are caught cheating in any way you will be given a zero and parents and administrators will be notified, see student handbook.**

**"It's not that I'm so smart, it's just that I stay with problems longer."**

**-Albert Einstein**

**How will I be graded?**

**20% Homework, Notes**

**DO HOMEWORK WELL and ON TIME.** In math, every day builds on the information given the day before. If you keep up with the homework, you will keep up with the class.

Each assignment will be collected the next class period after the material is taught. I will stamp your homework while you are grading it. If you need to redo your assignment and you have a stamp you can still get full credit. Turn it in before the test and correct the problems you missed. Assignments are worth **10** points if on **time**, **7** points if turned in **before** that unit’s test, **5** points if turned in **after** that unit’s test.

**Make-up Work:** An absence must be **excused** for make-up work to count. Anything due while a student is absent will be due **the day they return or it is late**. The student must write absent on their paper or it will be counted late**. You also need to get a stamp from me before you turn it in.**  If you are absent for 3 days then you have 3 days to make up the work, and so on.

**If you want to do well on homework you need to take good notes. If you want to do well on test, complete homework!**

**Notes** will be turned in at the end of each unit. Notes will be taken for each section together during class.

**5% Quizzes**

**Quizzes** will be given at the **BEGINNING OF CLASS**. If you are tardy or absent you will miss a quiz. You cannot makeup, quizzes however I will drop your 3 lowest quiz scores at the end of the term.

**75% Tests**

A test will be given at the end of each Unit. We will have at least one day to review for each test. If you are absent you may make up the test after school but you are **ineligible for a retake**. If you would like to retake the test for a better grade, you may retake a different test. To retake a test you are required to redo your first test and **all homework for that unit completed before the first test.**

Retakes must be completed within one week.

I will be available after school on Monday (consultation), Wednesday, Thursday and Friday. I will also be available on Tuesday during lunch.

**How to contact me:**

E-mail is the preferred way to contact me: territ@provo.edu

You can call the school and leave a message with the secretary and I will call you when school is over. Please do not call my extension during school hours. After school call 221-9720 ext. 3616.

It is your responsibility to check your grades regularly on PowerSchool by going to [www.timpview.provo.edu](http://www.timpview.provo.edu)

**Course Plan SM3**

**Term 1**

### Linear and Quadratic Functions

(2.1) Parent Functions and Transformations, (2.2) Transformations of Linear and Absolute Value Functions, (2.3) Modeling with Linear Functions, (2.4) Solving Linear Systems

**TEST Chapter 2a**

(2.5) Transformations of Quadratic Functions, (2.6) Characteristics of Quadratic Functions,

(2.7) Modeling with Quadratic Functions, Solving Systems of Inequalities by Graphing, Optimization with Linear Programming

**TEST Chapter 2b**

**Polynomial Functions**

(3.1) Graphing Polynomial Functions, (3.2) Adding, Subtracting, and Multiplying Polynomials,

(3.3) Dividing Polynomials, (3.4) Factoring Polynomials

**TEST Chapter 3a**

**Polynomial Functions (cont.)**

(3.5) Solving Polynomial Equations, (3.6) Fundamental Theorem of Algebra,

(3.7) Transformations of Polynomial Functions, (3.8) Analyzing Graphs of Polynomial Functions, (3.9) (Optional) Modeling with Polynomial Functions

**TEST Chapter 3b**

**Rational Exponents and Radical Functions**

(4.1) nth roots and Rational Exponents, (4.2) Properties of Rational Exponents and Radicals,

(4.3) Graphing Radical Functions, (4.4) Solving Radical Equations and Inequalities,

(4.5) Performing Function Operations, (4.6) Inverses of a Function

**TEST Chapter 4**

**Exponential and Logarithmic Functions**

(5.1) The Natural Base *e,* (5.2) Logarithms and Logarithmic Functions, (5.3) Transformations of Exponential and Logarithmic Functions, (5.4) Properties of Logarithms, (5.5) Solving Exponential and Logarithmic Equations, (5.6) Modeling with Exp. and Logarithmic Functions

**TEST Chapter 5**

**Term 2**

**Rational Functions**

(6.1) Inverse Variation, (6.2) Graphing Rational Functions, (6.3) Multiplying and Dividing Rational Expressions, (6.4) Adding and Subtracting Rational Expression, (6.5) Solving Rational Equations

**TEST Chapter 6**

**Sequences and Series**

(7.1) Defining and Using Sequences and Series, (7.2) Analyzing Arithmetic Sequences and Series, (7.3) Analyzing Geometric Sequences and Series, (7.4) Finding Sums of Infinite Geometric Series, (7.5) Using Recursive Rules with Sequences

**TEST Chapter 7**

### Trigonometric Ratios and Functions and Formulas

(8.1) Right Triangle Trigonometry, (8.2 )Angles and Radian Measure, (8.3) Trig Functions of Any Angle, (8.4) Graphing Sine and Cosine Functions, (9.3) Law of Sines, (9.4) Law of Cosines

**TEST Chapter 8/9**

**Data Analysis and Statistics**

(10.1) Using Normal Distributions, (10.2) Populations, Samples, and Hypotheses,

(10.3) Collecting Data, (10.4) Experimental Design, (10.5) Making Inferences from Sample Surveys, (10.6) Making Inferences from Experiments

**TEST Chapter 10**

**Geometric Modeling**

(1.1) Modeling with Area, (1.2) Modeling with Volumes, (1.3) Cross Sections of Solids, (1.4) Solids of Revolution

**TEST Chapter 1**

**Course Plan Pre-Calculus**

**Term 3**

**Solving and Graphing Equations**

(1.6/1.7) Solving Equations and Inequalities, (2.2/2.4) Graphs of Equations in two variables.

**TEST Chapter 1/2**

**Functions**

(3.1/3.2) Graphs of Functions (3.3) Increasing and Decreasing Functions (3.4) Transformations of Functions (3.5) Quadratic Functions Maxima and Minima (3.6) Combining Functions (3.7) One-to-One Functions and their Inverses

**TEST Chapter 3**

**Polynomial and Rational Functions**

(4.1) Polynomial Functions and their graphs (4.2) Dividing Polynomials (4.3) Real Zeros of a Polynomial

(4.4) Complex Zeros (4.5) Rational Functions

**TEST Chapter 4**

**Exponential and Logarithmic Functions**

(5.1) Exponential Functions (5.2) Logarithmic Functions (5.3) Laws of Logarithms (5.4) Exponential and Logarithmic Equations (5.5) Modeling with Exponential and Logarithmic Functions.

**TEST Chapter 5**

**Systems of Equations and Inequalities**

(6.1) Systems of Equations (6.2) Systems of Linear Equations in Two Variables (6.3) Systems of Linear Equations in several variables (6.4) Systems of Inequalities (6.5) Partial Fractions

**TEST Chapter 6**

**Matrices and Determinants**

(7.1) Matrices and Systems of Linear Equations (7.2) The Algebra of Matrices (7.3) Inverses of Matrices and Matrix Equations (7.4) Determinants and Cramer’s Rule

**TEST Chapter 7**

**Conic Sections**

(8.1) Circle/Ellipse (8.2) Parabolas (8.3) Hyperbolas (8.4) Identify Conics)

**TEST Chapter 8**

**Term 4**

**Sequences and Series**

(9.1) Sequences and Summation Notations (9.2) Arithmetic Sequences (9.3) Geometric Sequences

(9.6) Binomial Theorem

**TEST Chapter 9**

**Counting and Probability**

(10.2) Permutations and Combinations (10.3) Probability

**TEST Chapter 10**

**Trigonometric Functions**

(2.1) Angles and Arcs (2.2) Trigonometric Functions of Acute Angles (2.3) Trigonometric Functions of Any Angle (2.4) Trigonometric Functions of Real Numbers (2.5) Graphs of Sine and Cosine Functions

(2.6) Graphs of other Trigonometric Functions (2.7) Graphing Techniques

**TEST Chapter 2**

**Trigonometric Identities and Equations**

(3.1) Verification of Trigonometric Identities (3.2) Sum, Difference, and Co-function Identities (3.3) Double Angle and Half Angle Identities (3.4) Identities Involving the Sum of Trigonometric Functions (3.5) Inverse Trigonometric Functions (3.6) Trigonometric Equations

**TEST Chapter 3**

**Applications of Trigonometry**

(4.1) Law of Sines (4.2) Law of Cosines (4.3) Vectors

**TEST Chapter 4**

**Complex Numbers/Topics in Analytic Geometry**

(5.1) Complex Numbers (5.2) Trigonometric Form of Complex Numbers (5.3) De Moivre’s Theorem

(6.5) Introduction to Polar Coordiantes

**TEST Chapter 5/6**

Please sign and return to Mrs. Taylor by August 25th, 2017.

I have read and agree to follow all the procedures outlined in this disclosure statement.

Print Student Name:

Student Signature:

Print Parent/Guardian’s Name:

Parent/Guardian’s Signature:

**Parent/Guardian’s e-mail:**

**Student’s e-mail:**

If there is anything in particular that you think I should know about your student, please e-mail me or give me a call.

**Thank you!**