**DICKINSON HIGH SCHOOL COURSE SYLLABUS**
**PRE-CALCULUS HONORS**

INSTRUCTOR: M. Milutin                    COURSE LENGTH: 1 year (2 semesters)
CONFERENCE:  10:20 – 11:00                TUTORIALS:  Monday/Tuesday/Thursday 2:45 – 3:45

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## I. Course Description
Pre-Calculus PAP will include extensions and will place an emphasis on applications.  Higher level thinking skills are stressed through programming the graphing calculator, projects, and group advanced placement activities.  Topics to be covered include:

1st Nine Weeks:  Factoring & Complex Fractions; Composition of functions; Inverse functions; Attributes of Quadratic, Power, Exponential, Logarithmic and Rational functions; Piecewise functions; Properties of Logarithms.

2nd Nine Weeks:  Solving & Generating Logarithmic & Exponential functions; Solving Polynomial equations & inequalities; Solving Rational inequalities; Unit Circle; Trigonometric Functions; Graphing Trigonometric functions

3rd Nine Weeks:  Analytic Trigonometry; Vectors; Conics

4th Nine Weeks:  Parametric equations; Polar Coordinates; Graphs of Polar Equations; Arithmetic & Geometric Sequences; Binomial theorem

## II. Expectations
My responsibilities as your teacher are to (1) provide you with the information you need to be successful; (2) Provide a safe environment for you to learn; and (3) Show courtesy and respect to my students.
Your responsibilities as a student are to (1) Be on time and prepared for class; (2) Show courtesy and respect to your fellow students and the teacher; and (3) Work hard and don't give up!

## III. Grade
Formative Assessments (includes Daily Work, Homework, Quizzes)          40%
Summative Assessments (Tests, projects)                                          60%

## IV. Homework & Late Work
Homework:  Any class work not finished in class will become homework.  It will be due two days after the day it is assigned.

Absences:  In the event you are absent, it is your responsibility to make up all work as soon as possible.

Tests:  Last test of each nine weeks will be cumulative AND may replace a previous test grade.

## V. Required Materials
Pen or Pencil                              notebook/graph paper
3-Ring Binder (1 ½ inch)

## VI.  Notes Taking
        A notebook for note taking is essential and must be in class each day.

## VII. CALCULATORS

Calculators: A TI-Nspire™ CX Handheld will be provided for students to use in class when prompted to. Each student will have an assigned calculator to use during the class period. If something were to happen to the calculator, the student is to report it to the teacher immediately. If a student causes any damage to the calculator, they may be responsible for replacing it or paying a fine of $140.00. It is recommended that students who would like to purchase a calculator purchase a TI-Nspire™ CX Handheld. This is the calculator they will use in class.

## VIII. SCHOOLOGY

- Schoology will be the platform used for this course.
- If you are absent or need additional assistance, you will refer to Schoology for notes, videos, and assignments.

_____          _____
Parent/Guardian signature                                     Student signature


_____          _____
Print Parent/Guardian Name                                 Print Student Name


_____          _____
Parent/Guardian email                                          Student email