

Dorchester County Public Schools

Mathematics Syllabus

Teacher's Name:	Mrs. K. Spear	Room Number:	A214
Email:	speak@dcpsmd.org	Class Length:	90 minutes
Phone Number:	410-943-4511 ext. 1542	Google Number:	302-466-5080

Course Title:

Pre-Calculus

Course Description:

This course is designed for students who intend to pursue careers in mathematics and engineering. It focuses on topics, such as trigonometry, to prepare students for calculus. Trigonometry topics include the study of angles, the six trigonometric functions, right triangle trigonometry, trigonometric identities, applications, exponential and logarithmic functions, graphing techniques of sinusoidal waves, and analytic geometry.

Resources:

- *Precalculus with Limits: A Graphing Approach, 7th edition*

You will be assigned a textbook to take home and leave home. You will also be assigned a textbook that will remain in the classroom. We will be utilizing practice problems from the textbook. It is also encouraged for students to work through odd problems as the answers are in the back of the book.

- Khan Academy: <http://www.khanacademy.org>

Khan Academy is an online practice tool. We will go on this website often for extra practice. Students can use this resource at any time to learn a skill or practice a concept that was taught in class.

<https://www.khanacademy.org/join/DRA6NQ29>

The above link for Khan Academy is specific for our class. I will be assigning videos and practice problems here as well. Be sure to join the class with your DCPS email.

- Desmos: <http://www.desmos.com>

Desmos is an amazing website that has so much to offer. Desmos can be used as a graphing calculator.

Since graphing calculators are used in class, students may want to use this resource to complete or review work at home. This online version has the same functions as the graphing calculators we will use in class.

Units of Study:

Unit 1 – Functions and Their Graphs

- Tentative assessment date range: September 22-September 28

Unit 2 – Polynomial and Rational Functions

- Tentative assessment date range: October 9-October 15

Unit 3 – Exponential and Logarithmic Functions

- Tentative assessment date range: November 3-November 9

Unit 4 – Trigonometric Functions

- Tentative assessment date range: November 24-December 3

Unit 5 – Analytic Trigonometry

- Tentative assessment date range: December 18-January 7

Unit 6 – Additional Topics in Trigonometry

- Tentative assessment date range: January 20-January 26

Materials:

Required:

Notebook or Loose-Leaf Paper

Binder or Folder

Pencil or Pen (Black or Blue)

Index cards

Recommended:

Graph paper

Highlighters

Multiple color pens for notes

TI-84 or TI-84+ Graphing Calculator

Grading Policy:

Formative assignments, or assignments that are embedded as part of daily instruction, account for 40% of a student's grade. Examples of formative assignments include class work, cooperative activities, exploratory labs, exit tickets, informal writing assignments, and other formative assignments determined by the teacher. Summative assignments account for 60% of a student's grade. A summative assignment occurs after instruction has been completed on a given topic, standard, or unit. Examples of summative assignments include unit tests, quizzes, projects, formal writing assignments, lab write-ups, and other summative assignments determined by the teacher.

The following letter grades will be used for all subject areas.

Letter Grade	Percentage Range	Description
A	90-100	Excellent mastery of knowledge and skills; the quality of work is superior
B	80-89	Good mastery of knowledge and skills; the quality of work is above average
C	70-79	Satisfactory mastery of knowledge and skills; the quality of work is average.
D	60-69	Unsatisfactory mastery of knowledge and skills; the quality of work is the minimal level of acceptable performance.
E	0-59	Failure in mastery of knowledge and skills; the student does little or none of the work required, and the quality is unacceptable.

Summative Assessment Retest Policy and Expected Student Behaviors are referenced in the calendar handbook and/or at <http://www.dcps.k12.md.us/>

Expected Student Behaviors:

In Dorchester County Public Schools, all students are expected to:

- Engage in learning activities and take schoolwork seriously
- Be courteous
- Attend school regularly, on time, and prepared to learn
- Cooperate with others
- Take responsibility for their own behavior
- Complete assignments on time
- Speak appropriately
- Exhibit self-control
- Behave ethically

Student Mission Pledge:

I will finish my program of study and become college and career ready!