

North Oldham High School

Mrs. Megan Rogers
Mathematics – Room 507
megan.rogers@oldham.kyschools.us
(502) 228-0158 ext.507

Pre-Calculus (1 credit)

Prerequisites: Algebra 2

School Year: 2017-2018

Textbook: Larson, Ron. Precalculus with Limits 3e. Boston, MA: Brooks / Cole

Requirement for credit:

Complete all class work with a 70% or greater; develop the required open response items at apprentice level or greater.

Catalog description:

The student will consider the properties and the applications of sequences and series. Considerable attention will then be given to multiple representations of several classes (linear, polynomial, rational, exponential, logarithmic, and trigonometric) of functions in both mathematical and realistic contexts. Students will also be introduced to the conic sections and to polar graphs and their equations. Elementary concepts from calculus will be studied, as time permits. This course requires that a student communicate effectively and make appropriate use of the available technology.

Materials Needed:

- ✓ 3-ring binder and loose leaf paper **OR** spiral notebook and folder
- ✓ Pencils (absolutely no pens!)
- ✓ Non-graphing Calculator
- ✓ Graphing Calculator (TI-83+, TI-83 SE, TI-84, TI-84 SE, or TI-84+C)
- ✓ **4-AAA batteries for the calculator**
- ✓ Box of Kleenex (Optional)

Grading:

Homework/ Daily Work (10%) – Assignments will be graded based on completion and accuracy. In order to receive full completion credit, students should attempt ALL of the assigned problems, show their work, and turn the assignment in on time. Not all assignments will be taken up for a grade, but students will still be responsible for knowing the material. Late homework will NOT be accepted for full credit. The student will receive 60% credit for a late assignment.

Quizzes (20%) – Quizzes will be used to assess student learning leading up to each unit test. Some quizzes will have calculator restrictions. All major quizzes will be announced in advance. Students will not be allowed to use their notes, homework or textbook for these. Some quizzes will be unannounced and students will be allowed to use their notes or homework on these.

Tests (50%) – Tests will be given at the end of each unit. All tests will be announced. Tests are worth 100 points. Keeping all of your notes and homework will help you to prepare and study for the midterm and the end of course exam. Students will be allowed test retakes, but there are guidelines for test retakes that the student will receive separately.

Midterm (10%) / Final Exam (10%) – There will be a comprehensive midterm and final exam. The midterm will count for 10% of the overall grade and will cover the algebraic part of pre-calculus. The final exam will count for 10% of the overall grade, and it will cover the trigonometric part of pre-calculus. I suggest that students keep all notes and homework to use to study for the final exam and midterm

Content Covered:

- Unit 1: Functions and Their Graphs
- Unit 2: Polynomial and Rational Functions
- Unit 3: Exponential and Logarithmic Functions
- Unit 4: Trigonometry
- Unit 5: Analytic Trigonometry
- Unit 6: Additional Topics in Trigonometry
- Unit 7: Various other topics as time allows

Make-up Work:

Make-up work for full credit only applies to absent students. If you have an excused absence, you will be given the number of days you missed, plus one day to make up your work. It is your responsibility to find out what you missed and copy the notes for that day. If your homework is not turned in on time, you will not receive full credit. If you have to make up a test or quiz, a different form may be given so that tests can be returned to other students in a timely manner. Through school policy, only 70% of an earned quiz or test grade will be given for unexcused absences.

Tutoring:

Students may stay after school on designated days or come early any morning for tutoring. I am typically at school by 7:45 each morning. Students will also be able to participate in the ESS program, which will have established hours once school begins. This is a great time to get questions answered, get homework help, prepare for a test or retake a test. Take advantage of this opportunity from the beginning! Do not wait until you are completely lost and behind in your work to ask for help!

Classroom Procedures:

- Once entering the classroom student should immediately get out homework from the previous lesson.
- Students should be inside the classroom before the bell rings or is considered tardy.
- Student must use PENCIL at all times during the math class!!
- When absent, it is your responsibility to come to me and ask for make-up assignments and copy the notes for that day.
- All students will remain in seats until the bell rings. If not all students are seated, we will remain in class until all students are in their seats.
- There will be absolutely NO CELLPHONES to be used unless otherwise instructed by the teacher. If a cell phone is seen or heard, I will ask you to give up your cell phone to me for the remainder of the period. If the cell phone is seen 3 times throughout the year or is refused to be given up then it will lead to a write up.

Expectations and Strategies for Success:

- ✓ Be Punctual. (Be in your assigned seat when the bell rings.)
- ✓ Be Prepared. (Bring all materials to class each day. Do all work in pencil!)
- ✓ Be Productive. (Stay on-task and actively participate in class. Ask Questions!)
- ✓ Be Positive. (Don't give up when faced with a challenge!)
- ✓ Be Polite. (Show respect to your teacher, classmates, and classroom.)