

Pre-Calculus Course Syllabus

Teacher: Mr. Stanton

Room: 311

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Course Description:

For students who may be leaning towards post-secondary education, pre-calculus should be chosen. Students will be exposed to more advanced algebra, circular and trigonometric functions, advanced geometry in rectangular and polar coordinates, logarithmic and exponential functions, sequences, series and limits. This course is geared toward students who are looking to advance their math skills necessary to improve their ACT scores and/or perform well on college entrance exams.

Required Text: Larson Precalculus with Limits – 3e

Course Content:

Chapter 1: Functions and Their Graphs
Chapter 2: Polynomial and Rational Functions
Chapter 3: Exponential and Logarithmic Functions
Chapter 4: Trigonometry
Chapter 5: Analytic Trigonometry
Chapter 6: Additional Topics in Trigonometry
Chapter 7: Systems of Equations and Inequalities
Chapter 8: Matrices and Determinants
Chapter 9: Sequences, Series, and Probability
Chapter 10: Topics in Analytic Geometry
Chapter 11: Analytic Geometry in Three Dimensions
Chapter 12: Limits and Introduction to Calculus
Chapter 13: Concepts in Statistics

Course Evaluation:

Highland Universal Grading Scale

A+ = 98-100

A = 93-97

A- = 90-92

B+ = 87-89

B = 85-86

B- = 83-84

C+ = 81-82

C = 76-80

C- = 74-75

D+ = 72-73

D = 67-71

D- = 65-66

F = ↓ 65

The following categories will be used as percentages to calculate your overall grade.

Daily Work - 5%

Quizzes - 25%

Tests - 70%

There is no rounding on quarter or semester grades. In other words 89.99 is a B+, whereas 90.00 is an A-.

Homework:

Homework will be given daily. All homework will be collected at the end of the chapter, but it is in your best interest to do the assignment as completely as possible **the day the homework is assigned**. Questions may be asked the following day, but I will only take a limited amount of questions. We will also be using IXL Math for daily homework. Homework is a tool for you to use that will ensure your understanding of the material. **IT IS YOUR RESPONSIBILITY TO COMPLETE THE WORK. YOU WILL BE RESPONSIBLE TO KNOW THE MATERIAL!**

Homework Expectations:

To receive full credit:

- complete work neatly
- include a heading in the upper right hand corner (name, class, assignment, and date)
- **SHOW ALL OF YOUR WORK.**
 - o All homework is graded on a 4 point scale
 - 4 – Neat and complete
 - 3 – Mostly completed
 - 2 – Tried most problems
 - 1 – Tried some problems
 - 0 – Did not attempt
 - o IXL is graded on a score scale based on your IXL percentage as follows
 - 85-100 = 4
 - 60-84 = 3
 - 35-59 = 2
 - 1-34 = 1
 - 0 = 0

Quizzes:

There will be a quiz in every chapter and some chapters may have 2 quizzes. All quizzes are comprehensive. This means that I will quiz you on any material we have covered throughout the year. Quiz practice will be given two days before the quiz and are expected to be completed before you take the quiz.

Tests:

There will be one test per chapter. The chapter test will cover material from the current chapter only. Test reviews will be given at least two days before the test. This is not a homework assignment but is expected to be completed in order to help you study.

Quiz/Test Makeup Guidelines:

A student who is absent the day of a test has two school days to make up the quiz/ test. Other circumstances will be dealt with individually. If you feel that you have a unique circumstance that deserves an exception, **please talk to me in advance.**

Retake/Redo Guidelines:

Any student may retake any quiz within one week of the previous quiz for full credit regardless of the initial grade. There is a retake form that must be completed before every retake. Quiz questions answered correctly may be banked if retake process has been started within one week and the quiz practice has been completed prior to the quiz. After one week, questions are unbanked and you must retake the entire assessment.

There are no retakes on tests.

Test Corrections:

First of all, test corrections are structured to be time-consuming. This structure serves two purposes: a) it helps to teach you the material that you did not grasp the first time around, and b) it is not an easy alternative to studying for and performing well on the test. If done correctly when needed, test corrections can be a huge help to improving your grade.

Corrections Scale:

Test Score Make Up Points

98% to 100%	Too Bad
93% to 97%	up to a 97%
90% to 92%	up to a 95%
87% to 89%	up to a 93%
85% to 86%	up to a 91%
83% to 84%	up to an 89%
81% to 82%	up to an 87%
76% to 80%	up to an 85%
74% to 75%	up to an 83%
72% to 73%	up to an 81%
67% to 71%	up to a 79%
65% to 66%	up to a 77%
Below 65%	up to a 75%

Rules:

1. Tests may **NOT** leave my room. You will need to come in on your own time to get your test. You will have **only** 1 week to make corrections.
2. You may complete one test correction per test.

How to do a Proper Test Correction:

1. Every wrong answer must be corrected. And by corrected I mean correct. You have your book, notes, and me as resources.
2. One correction per page (you may use front and back of notebook paper).
3. You must **write out the entire original problem and show work for every step** of the corrected problem from the beginning! This applies even if you only have a half point taken off for labels, plus or minus, etc.
4. You must explain, in a paragraph, an explanation of how you solved the problem correctly using full sentences, correct grammar, and vocabulary. These should be step by step instructions that show an understanding of **why** you are doing certain steps, not just how you complete the process.

Mental Math:

We will have Mental Math Monday every week unless otherwise stated. Mental Math is extra credit toward your daily work. **MENTAL MATH DOES NOT COUNT AGAINST YOU!**

There will be 10 questions that I feel you should be able to do in your head without writing down any work. You may not use your book, notes, or a calculator. You will only write down the answers to the questions on the board. Again this does not count against you, so give every question your best effort. Ten extra credit points may be used to get points back on quizzes if you have a qualifying mistake (missed positive or negative, simple math error, etc.) that will be determined by Mr. Stanton. Each week you can get a maximum of 10 extra credit points and a minimum of 3 if you give your best effort.

If we do not have school on a Monday we will not have Mental Math. If you are absent for a Mental Math, there is no opportunity for a makeup. You simply will not receive any extra credit that week.

Website:

My website can be accessed from the Highland High School webpage by following the links from high school, to high school staff, then by clicking on the website link below my name.

There will be valuable links to each class that will include; an outline of the notes we will cover in class, the homework from that week, and videos that are recorded every day from the lecture in class. These videos are of the SMART board and my voice, and can be very helpful when studying outside of school or in case of an absence.

Flipped Classroom:

Occasionally I will be doing what's called a flipped classroom. This is where you will watch the video of the lecture the **night before class**. Then, class time will be used for homework. This way I am available to help you with all of the homework and it will give us more time to have discussions about concepts and analysis of the material.

This only works if you commit to watching the videos and taking notes ahead of time! You will not be able to complete the homework in class without first watching the lesson.

If you do not have access to high speed internet at home, I have flash drives that I will load the video lessons onto and you will be allowed to check out both a flash drive and a netbook if needed. PLEASE TALK TO ME AHEAD OF TIME IF THIS IS THE CASE.

Virtual Learning:

Virtual Learning will be on an IF NEEDED/QUARANTINE basis only. Students absent due to general sickness, appointments, vacations, or any other non-quarantine related reasons will be expected to use the resources above to determine what materials and content they missed. Students that are quarantined due to COVID-19 will have the option to login to Google Meets to participate in live class sessions.

- Students will be marked absent with a Quarantine note. These absences will not count against you as a regular absence.
- Students will be responsible to login to the Meet on time.
 - Class will start at the appropriate time and I will not wait/check to see that you are logged on
 - Please email me/call the school if any problems occur
- Students will be responsible for participation in class just as if you were sitting in the physical classroom
- Assessments during the quarantined period will be determined by Mr. Stanton. I reserve the right to give/hold the assessment based on circumstances. This will be clearly discussed before any assessment.

General Classroom Policies:

The classroom is a place for learning and exploration. Failure is simply our First Attempt In Learning. As such, it is essential that each of us work to create and maintain that environment. To that end each student is expected to:

- Come to class on time, **with all required materials**, ready to learn
 - You will not be able to go to your locker for pens, pencils, calculators, notebooks, etc., once class starts
- Complete assignments on time, ready for homework review
- Actively participate, both in group work and individual board work
- Respect each other, the teacher, and the environment
- Take responsibility for learning, **ask questions when necessary**
- Abide by all school rules inside the classroom
- Any violations of these rules are subject to:
 - Verbal reminders
 - Retention after class/resource/school
 - Office referral
 - Detention
 - Parent contact
- Encourage active participation and healthy group discussions by:
 - Acknowledging participation – even if incorrect
 - Allowing explanations
 - Constructive criticism
 - Respecting others – no negative comments such as
 - “That’s so dumb”
 - “Shut up”
 - Any words/phrases I find offensive
- CELL PHONES
 - There will be **no cell phones** allowed in the classroom for any reason
 - If you are using it in the hallway it needs to be put away **before you enter my room**
 - If I **see** or hear (even on vibrate) a cell phone I will take it and it will be given to Mr. Tarrell to pick up at the end of the day.

- 1st offense – Mr. Tarrell will have the phone for the remainder of the day
- 2nd offense – Mr. Tarrell will collect it at the beginning of the day for 3 consecutive school days
- 3rd offense – Mr. Tarrell will collect it at the beginning of the day for 5 consecutive school days
- HEADPHONES/EAR BUDS/AIR PODS/ETC
 - None of these will be allowed – see above

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- ☐ I understand the homework policy and agree that math requires repetition to achieve mastery; therefore time should be spent on math outside of class. This time varies depending on the individual and difficulty of the material. Adequate time should be spent to achieve desired level of mastery.
- ☐ I understand the quiz and test policy, and agree to take advantage of every opportunity given to improve in mathematics.
- ☐ I am aware of the website and the resources it provides.
- ☐ I understand the flipped classroom and agree to watch all necessary videos, when assigned, to be prepared for class.
- ☐ I understand the virtual learning option is COVID-19 Quarantine based only.
- ☐ I have read the student contract and understand the course requirements, guidelines and classroom policy for math class.
- ☐ I understand that my grade in this class is a reflection of **how well I know the material** and not based on effort alone.
- ☐ I understand the zero tolerance policy for cell phones/headphones in the classroom.

Date: _____

Student's Signature _____

Parent/Guardian Signature _____