

Functions Precalculus Accelerated Syllabus 2025-26

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Course Description

In this course students will continue their study of mathematics building off the algebraic and geometry concept learned in previous courses. The course will integrate the curriculum of Functions, Statistics and Trigonometry and Precalculus and Discrete Mathematics in a unified manner. The course emphasis algebra manipulation, functional relationships, analytic geometry, trigonometry, statistics and probability. The course will also preview the calculus concepts including limits, derivatives and integrals. Graphing calculators and other technologies are used to plot functions, analyze data, and simulate experiments.

Perseverance

In this course Mathematics is our vehicle for learning, but what students are developing is their ability to logically reason, problem solve, and communicate which are skills required in many fields inside and outside of the sciences. This course is designed to challenge students' abilities. A major emphasis in this course will be the use of problem solving. The course will require students to work through struggle and gain comfort when a situation does not give an immediate answers of "what to do". This is to help students to develop critical thinking strategies, intrinsic questioning, and self-reliance in difficult areas. The limited class time is fully utilized for discussion, activities, labs, quizzes, review, and tests which makes attendance of the utmost importance. Outside of class homework is critical to students' understanding of the material. This is where students' problem-solving skills will be tested and developed. Questions regarding content and homework are always accepted both in class and outside of class. **Students are encouraged to come and seek help whenever a question arises.**

Materials

FST and Pre-Calc Books	Graphing Calculator (TI Nspire highly recommended)
Notebook or Loose Leaf Paper	A charger for your TI Nspire (keep your calculator charged)
Binder (Recommended)	Chromebook/Laptop/Device (same one as all other classes)
Pencils (Many of them)	

Grades

Grade Calculation	Course Prerequisites	Grading Scale											
<p>Your 18 week grade will be made up of your performances in the following categories valued with these percentages.</p> <p>18 Week Grade</p> <table><tr><td>55%</td><td>Tests</td></tr><tr><td>35%</td><td>Quizzes</td></tr><tr><td>10%</td><td>Homework</td></tr></table> <p>Semester Grade</p> <table><tr><td>18-Week Grade</td><td>80%</td></tr><tr><td>Final Exam</td><td>20%</td></tr></table>	55%	Tests	35%	Quizzes	10%	Homework	18-Week Grade	80%	Final Exam	20%	<p>A “B-” is required to take A.P. Statistics</p> <p>A “B-” is required to continue on to Calculus</p> <p>If you receive any grade lower than a C- after the first two quarters you should transfer to a Functions class for the second semester. If you receive any grade lower than a B- at the end of the year you should re-take Pre-Calculus the next year. Sophomores successfully completing the course should sign up for Calculus and Applications as a Junior and then AP Calculus BC as a Senior. Juniors successfully completing the course should sign up for AP Calculus AB for their Senior year.</p>	<p>93% or Above</p> <p>90% or Above</p> <p>87% or Above</p> <p>83% or Above</p> <p>80% or Above</p> <p>77% or Above</p> <p>73% or Above</p> <p>70% or Above</p> <p>67% or Above</p> <p>63% or Above</p> <p>60% or Above</p> <p>Below 60%</p>	<p>A</p> <p>A-</p> <p>B+</p> <p>B</p> <p>B-</p> <p>C+</p> <p>C</p> <p>C-</p> <p>D+</p> <p>D</p> <p>D-</p> <p>F</p>
55%	Tests												
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Homework

Students will be assigned homework for each section out. Problems have a wide range of difficulty levels to help students experience the breadth of the applications of Mathematics. Lists of assignments will be handed out at the beginning of each unit. Students will submit pdf scans of their homework on Canvas each morning of the due date. Due dates will be clearly outlined on the course calendar and will roughly be twice per unit. Students are encouraged to work together and ask questions on their homework especially for the problems that they find more difficult. Every problem must be attempted with work shown. Students must then take the assignment and check answers against the posted answer key making corrections and reworking incorrect problems in a different color. There is no penalty for incorrect problems as long as corrections have been made using the answer key. Assignments are graded out of 6 points, 4 pts for attempting each problem and 2 pts for completing corrections. To receive full credit, the assigned homework must be submitted by the due date posted on Canvas. A limited amount of late-work will be accepted past the submission date with penalty.

0-1 day late	1 point is deducted from the score earned on each assignment
1-3 days late	2 Points are deducted from the score earned on each assignment
3-7 days late	3 Points are deducted from the score earned on each assignment
7+ days late	0 Points can be earned for the assignment

When multiple assignments are due on a specific date, students are encouraged to submit any assignment that they have completed. They can then resubmit an assignment late if needed with penalty, but no penalty will be given to the assignment that was turned in on time.

A NOTE ON HOMEWORK: The importance of homework should not be overlooked. The homework grade is structured so students can practice their skills in a low stakes' environment and have flexibility when they completing their work. However, it is vital that they practice their problem solving when doing their homework. Their first attempt on each problem should be their own work. Then for the tougher problems, they are encouraged to work with friends, ask me during the resource period or class, compare their work to the answer key, or use other on-line resources or A.I. to aid in their learning. However, they should never bypass that initial attempt. They must practice taking on challenging problems in new situations on their own. Online resources and answer keys can be a great tool, but should not be their primary source when solving problems.

Quizzes

Quizzes will be given periodically each unit. Any missing quizzes sets that are not made up will be recorded as missing. At the end of the quarter 25% (rounded down) of the quizzes will be dropped. Missing quizzes will count as the dropped and any missing quizzes beyond the 25% will count as zeros.

Tests

You will have one test each unit. This test will reflect the material from the unit. However, it may not have exactly the same questions on it that you were asked on homework and quizzes. My tests will be designed to assess your understanding of the basic concepts and your ability to flexibly use the mathematics in different ways. There will also be a comprehensive component to each test from the previous chapters' material.

Students will be allowed one test retake per semester if the following conditions are satisfied.

- 1) Homework for the unit must be completed and turned in on time when it is collected.
- 2) The student must complete corrections on the original test and go over them with Mr. Schmid
- 3) The student will be given an alternate version of the test that covers the same material, but will have different questions and format
- 4) This process must be completed within 2 weeks from when the test was returned

Your two tests will then be averaged; however your higher score will count for 75% of your test and the original will count for 25%.

Absences

It is your responsibility to stay up on your work. My Canvas page is full of resources and links to help you navigate the course through any absences. Including digital copies of worksheets and answer keys as well as supplemental videos of lessons. Get caught up while you are out, do not wait until you return. Please sign-up to come in during resource hour to get help with missed material. If there is a day that I am absent, you will often have an on-line lesson or assignment, so make sure that your device is charged.

Assessments - For **Excused Absences**, assessments must be completed within 3 school days from the date per the student handbook. For **Pre-arranged Absences**, a student should make arrangements to make up assessments prior to the date if at all possible. For extended absences make arrangements with Mr. Schmid to set up a schedule for completion. For **Unexcused Absences** that prevents a student from completing an assessment on time, the student will be allowed to make up the assignment within 3 school days, but the score will be reduced by 50%. For any assessments that go beyond the specified due date and extensions, students will be asked to complete the assessment the next time they come to class.

Assignments - Since assignments are only collected periodically and are submitted on canvas, in the case of an absence, students are expected to follow the due dates. If an absence prevents a student from submitting an assignment they must make arrangements with Mr. Schmid for submission to be considered without penalty.

Cheating

I take cheating very seriously; if you are caught cheating in any way, shape or form your parents/guardians will be contacted and we will find an appropriate consequence for you. This usually entails a grade reduction of one letter grade for the course. If it happens a second time, your final grade will be lowered to an F and you will be reported to the office for discipline.

Some examples are as follows.

- Copying another person's Test or Project inside or outside of class.
- Using notes or a calculator on a quiz or test when they are not allowed.

Attendance

Students' attendance in class has a direct effect on their ability to do mathematics. If a student has an excused absence it is the student's responsibility to get any make-up work.

Tardy Policy

With our fast paced class periods we have a limited amount of time for each lesson, so being tardy to class is unacceptable. The following steps will be taken with regards to students being tardy to class.

1st , 2nd and 3rd	Warning
4th and Beyond	Referral to Office for a Saturday Detention

Help

It is my job to help you learn and provide you opportunities to learn mathematics, but learning the material is your responsibility. Make learning and school your priority, be self motivated, and recognize when you need extra help. Advanced mathematics classes can be difficult for students, so if you do not understand material, are having trouble with homework, or do not do well on a quiz or test come in for help. If you are having problems with homework, make sure that you come in for extra help and utilize the resource hour.

CLASSROOM CONDUCT:

Respect is the key word in this classroom. Respect for other students, the teacher, and school property is essential to create a positive learning environment. General school rules apply at all times. In addition the following rules apply to this class:

- 1) Students are to be in their seats when the tone sounds and remain there until the teacher dismisses the class.
- 2) Use the restroom and drinking fountain before coming to class. Students will be allowed to sign out to the bathroom **during work time**. If you make a habit of using the restroom during my class, restrictions may apply.
- 3) Students are to keep hands, feet, and objects to themselves at all times.
- 4) Students are to bring materials to class and participate in class/online activities.
- 5) Students will maintain an appropriate noise level during class time.
- 6) No profanity (spoken or otherwise) or inappropriate comments are allowed.

Digital Classroom Management Plan

Devices approved through the Arrowhead Device Guidelines are acceptable to use in the class. For more information on approved devices, see the Arrowhead website. The following technology device guidelines have been established for this classroom.

- **Cell phones/Smart Watches/Air Pods are NOT approved classroom devices - they must remain in your backpack during class.**
 - **Parents: DO NOT TEXT OR CALL YOUR SON/DAUGHTER DURING CLASS!!** If you really need to contact them, call the office and they will call your son/daughter down.
 - **Students: CLAIMING YOU HAVE YOUR PHONE OUT BECAUSE YOUR PARENTS TEXTED/CALLED YOU IS NOT AN ACCEPTABLE EXCUSE.**
- Devices (including your graphing calculator) are expected to be charged prior to coming to class. If needed, there are charging lockers in the library to charge your device/calculator during a study hall.
- Check the online calendar for updates and upcoming events/assignments.
- It is the teacher's discretion if devices will be used on a given day. You are expected to bring your device to class every day.
- Make sure you are appropriately, respectfully, and responsibly using your device in class.
- If you do not have your device on a given day, there are laptops available for checkout from the library.
- When using devices in the classroom, the AHS Acceptable Use Policy (signed by you and your parents) will be enforced. Please reference the [Acceptable Use Policy](#) on the AHS website for any questions.
- Inappropriate use of the device will result in consequences established by your classroom teacher.
- **Use of On-line Resources and A.I.** There are a lot of great resources on-line for learning mathematics and students are encouraged to use them as an aid in their learning. On-line resources are provided for students to check their work, self-assess on homework and practice. **However, the graded work must be their own.** Copying work from another person, online resource, or AI and submitting it as a graded assignment is strictly prohibited. Assessments must be the product of a student's knowledge and problem solving ability.

Most of all, I am here to help you learn. If you are having difficulties or have any issues you would like to talk about please contact me or come to see me. I am here for you.

"This classroom welcomes all, embraces each, supports everyone and hopes that you find yourself better for being here."

Parent Confirmation (Please go over this with your student)

Hello,

I am your student's Functions/Pre-Calculus Block teacher this year. For your student's first assignment I want them to show you this syllabus and this message. My goal this year is to teach your student mathematics in such a way that helps her/him to think critically.

The supplies needed for this class are as follows: a 3-ring binder and a notebook or loose leaf paper; a Graphing Calculator. I recommend that they have a TI-Nspire or TI-Nspire CAS. If they have a TI-83, TI-84, or TI-89, that will work as well. The TI-Nspire CAS can be purchased through AHS or at many department and office supply store in the area. They need these calculators as soon as possible. We will be using them right away in Unit 1 and they need to get comfortable with them. I would also recommend that every student have their books covered to withstand the rigors of their backpacks and lockers.

To help your student be successful, your support is needed. Make sure that they have a good place to work on their homework and study each night. You can also help make sure that they have completed their homework daily for math class. You can check your student's grades on the Skyward; they should be updated weekly. One of the best things that you can do to help them learn is to ask them occasionally what they learned in math class. You may not know the concept; however the process of explaining that concept can greatly help their understanding and ability to communicate. If they are unable to give you an explanation this may be a sign that they need extra help and should come in to see me.

If you have any concerns about grades or the class please contact me. My contact information is located on the front of the syllabus. The best and fastest way to get in touch with me is by e-mail. I am here to help students learn and I will do what I can to provide my students with the best opportunity to learn. Learning the material, however, is **your student's responsibility**.

Behaviors that disrupt the classroom will be dealt with swiftly in order to keep the classroom environment safe and supportive. Also, for your student to be successful their effort and desire are needed. Your support at home will greatly help their success.

Please look over the syllabus and the list of expectations below. Have your student initial next to each expectation and both of you sign the sheet showing that you and they understand what is expected. Finally, I have two questions that I would like them to answer regarding the class. Students will turn it in and keep the syllabus for themselves. Let me know if you have any questions/concerns. Thank you for your time and I am looking forward to a great year.

Sincerely,

Mr. Steve Schmid
AHS Math Teacher

Expectations (Please initial next to each)

- _____ I will make positive contributions in group activities and do all that I can to work cooperatively with those around me.
- _____ Once class starts I will be focused on mathematics and concentrate on the task and the lesson at hand.
- _____ If I have a problem with the class or something that is happening I will come talk to Mr. Schmid.
- _____ If I do not understand material or am having problems with homework, tests, or quizzes I will make arrangement to see Mr. Schmid for extra help.
- _____ I will show my classmates and my teachers the same respect with which I desire to be treated.
- _____ I will be prepared both mentally and physically for class. This means that everyday I will bring all materials and have my assignment done.

Expectations of Mr. Schmid (This are things that you can expect from me.)

- Mr. Schmid will do all that he can to help you learn mathematics. If questions arise or problems exist you may contact him and he will do his best to help.
- Mr. Schmid will be prepared for class each day.
- Mr. Schmid will treat all students with respect and will do what he can to help all students feel comfortable in his classroom.
- Mr. Schmid will make himself available as much as possible for students to ask questions and come in for help.

Parent Signature: _____

Student Signature: _____

Student Name (Print): _____

One thing I like about one of my previous math classes is...

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.