



**ADVANCED HONORS PRECALCULUS**  
**Abbott Lawrence Academy**  
**2019-2020**

\*\*\*\*\*

**ADVANCED HONORS PRECALCULUS SYLLABUS OVERVIEW**

\*\*\*\*\*

**Teacher:** Alissa Marco  
 Phone: (978) 946-0711 ext. 67100  
 (978)483-0449  
 Email: alissa.marco@lawrence.k12.ma.us

**Office Hours @ ALA:**  
 Classroom: H100  
 Friday 3:00-4:00

\*\*\*\*\*

**Course Description:**

In this course, students will extend topics introduced in Algebra II and learn to manipulate and apply more advanced functions and algorithms. Students in this class will review topics in Algebra ranging from polynomial, rational, and exponential functions to conic section. Trigonometry concepts such as Law of Sines and Cosines will be explored more thoroughly. Students will be learning analytic geometry and calculus concepts such as limits, derivatives, and integrals.

Topics include properties of absolute value, polynomial, rational, exponential, logarithmic and trigonometric functions, techniques for solving equations and inequalities, include college algebra, advanced trigonometry, and analytic geometry of two and three dimensions, and an introduction to the concept of limits and the difference quotient.

Students experience a thorough analysis of all elementary functions and curve-sketching. Selected discrete mathematics topics including normal probability distributions, non-linear regression, and hypothesis testing are explored. Practice with proofs such as mathematical induction are included. Experience with graphing calculators is incorporated. This course provides a mathematically sound foundation for students who intend to study Calculus.

Prerequisite: Successful completion of Advanced Honors Algebra II and Geometry or GeoTrig.

\*\*\*\*\*

**Materials:**

**Please bring:**

- Pencil and eraser
- Pens – one black or blue and one other different color of your choosing
- Index Cards
- Highlighter
- Post-it Notes
- **Spiral Notebook**
- Notebook paper (college-ruled)



Materials that I will be providing: TI-Inspire CAS calculators, rulers, compasses, graph paper, and protractors

Please note: The loss of property, calculator or charger, will result in a \$200 fee that must be paid. Any issues or concerns can be addressed with the Principal, Ms. Ciprich

TEXT BOOK: Glencoe Precalculus - Common Core

\*\*\*\*\*

**Means of Evaluation:** The list below generally describes the assignments that each student will be expected to complete during the course. Guidelines for each assignment will be distributed individually.

Assessments	(50%)
Notebooks/Classwork	(30%)
<u>Homework</u>	(20%)
Marking Period	(100%)

\*\*\*\*\*

**Grading Scale:**

90-100% = A

- 80-89% = B
- 70-79% = C
- 65-69% = D
- 0-64% = F

**LATE POLICY**

Late work will not be accepted for credit. If students find themselves in a situation where completing assignment is not feasible, please see Miss Marco to discuss and make alternative arrangements. Grades can be view on PowerSchool. Grades can be discussed with me after school during office hours, not during class.

- Assessments
  - Missed tests and major quizzes must be taken outside of class within a week of the absence.
- Classwork/Homework
  - Missed classwork and homework must be turned in the next class period.

**Extensions and Extenuating Circumstances**

Please see me if you have an extenuating circumstances so we can create a plan of when you can make up work.

**CLASSROOM EXPECTATION**

1. Be kind.
2. Always be willing to try.
3. Don't give up when challenged.
4. One mic.
5. Find focus.

\*\*\*\*\*

**CLASS PROCEDURES**

Upon entering the classroom, it is the responsibility of the student to:

1. Turn in homework and collect anything that has been graded
2. Get your binder and textbook, take your seat, and start your do now.
3. Write the content or language goal in your own words (or in mine!) above your Do Now
4. Complete your Do Now in your notebook
5. Focus and participate!

\*\*\*\*\*

**ABSENCES**

It is the expectation of the Lawrence Public Schools that all students are to attend all classes. While the district strives for 95% attendance, there are consequences for students whose attendance in their courses falls to 90% or less - including credit loss and/or retention. To earn credit in any course, a student is obligated to:

1. Fulfill the course requirements as defined by the content and performance standards for the course;
2. Maintain above a 90% attendance rate in all courses, no more than eight (8) absences per semester and no more than sixteen (16) absences for the year.
  - a. While credit is only earned at the end of a semester or year-long course, to earn a grade for the quarter, no more than four (4) absences are permitted.

If a student accumulates more than four (4) absences per quarter in any course, s/he will receive a grade of “N” on the report card, indicating that s/he is “Not on Track for Credit” due to poor attendance. If a student receives an “N” for one quarter, s/he can still receive a passing grade for the semester or year if the student maintains a passing grade average and is not absent more than four (4) times in the remaining quarters. It is important to remember that “N” represents a notice to both students and parents that they need to monitor their school attendance more closely and set a goal to improve attendance. One “N” does not represent that a student is failing the course from a lack of achievement. (If a student is failing the course for lack of achievement, the report card would reflect the failing grade, not an “N.”) If a student receives one or more “N” grades, they will also be ineligible for Honor Roll. Students may also convert an “N” acquired for a course to a letter grade by pursuing credit recovery options available at his/her school or programs. Options may include enrollment in extended day classes, Saturday programs, Acceleration Academies, or online course work as appropriate/available. These options should be discussed directly with the student’s classroom educator.

If a student earns two “N’s” in a semester course, s/he will receive No Credit for the course and likewise, if the student receives four “N’s” in a full year course, s/he will receive No Credit for the course. The absences would meet the threshold for chronic absenteeism and the student should set up a meeting with his or her guidance counselor to make arrangements to repeat the course or its equivalent in summer programs or future terms. For students who have otherwise achieved or exceeded the course standards, an alternative opportunity may be created.

Students who are consistently late to classes will receive disciplinary action. Consequences are as follows:

- One** detention after a student’s **3<sup>rd</sup>** unexcused tardy in a class.
- Two** detentions after a student’s **6<sup>th</sup>** unexcused tardy in a class (parent phone call).
- Three** detentions after a student’s **9<sup>th</sup>** unexcused tardy in a class (parent meeting).
- A Week** of detention after a student’s **12<sup>th</sup>** unexcused tardy in a class.
- Students will be referred to **in-school suspension** after their **15<sup>th</sup>** tardy. Disciplinary action after the 18<sup>th</sup> tardy will be at the discretion of the principal and may include an attendance hearing at Central Office and/or disqualification from taking Early College courses.

\*\*\*\*\*

### UNIFORM

Students are to be in uniform at all times. The uniform consists of an ALA black or maroon polo, khakis, and closed-toed shoes. Other acceptable garments include crew neck sweaters, fleeces, cardigans, or ALA track jackets in black, maroon, navy, or white. These garments must be solid colored and should not have any designs or stripes. Polo shirts must always be worn underneath these garments. Hooded sweatshirts and denim are not allowed in any way. Student cannot wear these garments through their arms. Students who have any concerns regarding uniforms should reach out to any ALA teachers or administrators who will help resolve any issues discreetly.

### FOOD/DRINKS

Outside food and drink are allowed *to an extent*. Food and drink **must** be cleaned up promptly and should only be in reasonable quantities (no full meals and cannot be distracting to you, classmates, or me).

### ACCEPTABLE USE OF TECHNOLOGY

Students should conduct themselves professionally at all times. Each teacher will determine when technology may be used in the classroom. Any inappropriate use of laptops or phones (such as texting, internet browsing, Facebook/ Twitter, etc) will negatively impact student grades. Teachers reserve the right to confiscate laptops/phones until the end of the period. If further issues arise, administration will confiscate phones for the rest of the day and notify parents.

### OFFICE HOURS

Teachers are available to help students in their classrooms each day until 3:15 pm. In addition, teachers hold office hours from 2:45 - 4:00 pm once a week so that students can discuss their work in the course and ask questions. Students are encouraged to attend office hours to seek extra support. If a student cannot make a teacher’s scheduled office hours, they should contact them directly to set up a meeting.

### GUIDANCE POLICY

Students are required to set up appointments to meet during the school day with Ms. Tetrault, the guidance counselor. She also holds drop-in times before and after school and during Advisory. In an emergency, a teacher can refer students immediately to the guidance office.

### HALL PASSES

Students should obtain a Hall Pass from a teacher to use the restroom or travel within ALA. Students are also required to sign-in/out when leaving and re-entering a classroom. A separate written pass is required to go to the nurse. Students cannot leave any given class during the first or final five minutes of a 45 or 60-minute class or the first and final ten minutes of a 90-minute class. This is known as the 5/5 rule for 45/60-minute classes and the 10/10 rule for 90-minute classes.

### ACADEMIC DISHONESTY

Students are expected to maintain the highest level of academic integrity. When using ideas, words, and short passages from other people's writing, students are required to acknowledge the source. Failure to acknowledge the contribution of others is considered plagiarism. Submitting plagiarized work, failing to properly cite or fabricating sources, and any other academic dishonesty will not be tolerated and will automatically result in a failing grade for the given assignment and further disciplinary action. Students will not be allowed to make up any plagiarized work for credit. Plagiarism includes copying directly from the internet, a book or article, or another student’s work (with or without their permission). In order to avoid these issues, students are encouraged to speak with any teacher or administrator if they have any questions (no matter how small) about their work or citing sources.

**\*\*Remember that to be successful in math, practice is so important! If you **copy** your classmate's homework or classwork, not only are you plagiarizing their work but you are also harming yourself! Assessments are worth the majority of your grade and homework is practice for that!**

**SPECIAL NEEDS**

All students who have special needs please let me know as soon as possible.

**ELECTRONICS POLICY**

All electronics should be kept away unless being used for educational purposes – please be honest and respectful. Remember to be successful you'll have to pay attention; no matter how fun phones are!

\*\*\*\*\*

**TEACHER'S MESSAGE:**

**“It is our choices, Harry, that show what we truly are, far more than our abilities.”  
Albus Dumbledore**