

# Honors Pre-Calculus Course Syllabus

Teacher: Mrs. Alabaku

Room: 125

E-mail: [kalabaku@winthrop.k12.ma.us](mailto:kalabaku@winthrop.k12.ma.us)

## **Course Description**

Through this course, students will acquire a solid foundation in algebra and trigonometry. Emphasis is placed on understanding the properties of linear, polynomial, piecewise, exponential, logarithmic and trigonometric functions. Students will learn to work with various types of functions in symbolic, graphical, numerical and verbal form.

## **Required Materials**

- Notebook
- Binder
- Lined/Graph paper
- Writing utensil (preferably pencil)
- Graphing Calculator

All the required materials are expected to be brought to class EVERY scheduled Pre-Calculus period.

## **Assessments**

Tests and quizzes will be given periodically throughout the year. There will be a review day prior to most assessments.

## **Homework**

Homework is a tool to help all students practice the skills they learned in class in a more independent setting. Homework is expected to be completed to the best of the student's abilities. There will usually be a short period of time at the start of each class to review the previous nights homework assignment. Suggested homework problems will be assigned every class. They will be posted on schoology. There will be homework quizzes (10 -15 min in class assessment) at least once a week.

## **Attendance/Participation**

Students are expected to come to class every day with the required materials. Class work, will consist of note taking, bookwork, open discussions, and group/individual projects. Students are expected to participate in every dynamic of the class. Some work will be collected for grading and some will be used to help students facilitate their own understanding of the material.

## **Make-up and Late Assignments**

Students are expected to maintain a high level of attendance at Winthrop High School (Please refer to the Students Handbook). Assignments and assessments that are missed due to absences from class are expected to be made up. You will have up to three days to complete and hand in missing assignments. Any assignments not made up will result in a zero.

## **Classroom Rules**

- Arrive to class on time and prepared to work.
- No food or drinks in the classroom.
- Cell phones and any other electronic devices must be turned off and invisible during the class period. If I see or hear your phone, it will be taken away.
- Please respect the teacher, classmates, yourselves, and the classroom materials.
- Stay seated at all times unless instructed or given permission to do otherwise.
- Be attentive and quiet when either the teacher or another student is speaking.

## **Plagiarism**

Any student who cheats/plagiarizes on an examination, or any other assignment, shall receive a zero, and may not make-up such work. The instructor, who will then notify the parent/guardian, will privately admonish the student.

## **Extra Help**

I am available after school until 3:00, but can stay later if necessary. Just make arrangements with me so I know that the student/parent is coming. I also can be reached via email at [kalabaku@winthrop.k12.ma.us](mailto:kalabaku@winthrop.k12.ma.us).

## **Grading**

- Assessments (Quizzes/Tests) ----- 50 - 60 points \*
- Homework ----- 10 points\*
- Homework Quizzes ----- 5 points \*
- Classwork ----- 10 points \*

***Quarter Grade = Points Earned / Points Possible***

***\* Points subject to change.***

## **Topics**

- Review of Algebra 2 - Quadratic Functions
- Complex Numbers System
- Functions
- Polynomial Functions
- Conic Sections and Coordinate Geometry
- Right and Non-Right Triangle Trigonometry
- Vectors and Polar Coordinates
- Trigonometric Functions
- Probability and Combinatorics
- Statistics
- Rational Functions and Limits

## **Vision of the Graduate**

Winthrop High School strives to ensure its graduates are able to become productive citizens of their town, their state, and their nation. To do this, the school in 2011 embraced the following learning objectives, on which students are evaluated quarterly. Taken together, they express a community vision for what we want our graduates to be, know, and do.

WHS Students will become...

### ***Critical Thinkers***

- They will use, apply, and evaluate multiple problem-solving strategies in a variety of disciplines.
- They will be able to select, organize, and evaluate new ideas.
- They will demonstrate the ability to actively and critically read.
- They will develop the skills and acquire the knowledge necessary to prepare them for college and career success
- They will be able to set priorities, and manage their time and tasks.

### ***Effective Communicators***

- They will communicate ideas and information with clarity and with an understanding of their audience.
- They will integrate and use a variety of communication forms.
- They will listen effectively and respond appropriately to spoken communication.
- They will master standard English-language conventions.

### ***Conscientious Citizens***

- They will be aware of, and follow, their community's rules and laws
- They will respect themselves and the community at large.
- They will be aware of and respect social and cultural diversity.
- They will understand, promote, and show the importance of hard work to achieve success.
- They will own their mistakes, and will learn from them.

### ***Creative Achievers***

- They will show curiosity and enthusiasm in everything they do.
- They will work and think originally.
- They will appreciate the arts in their many forms.
- They will select, organize, and develop innovative ideas.
- They will build off the ideas of others.

Student's Signature \_\_\_\_\_

Parent/Gardian's Signature \_\_\_\_\_