



**Blair School** *An International Baccalaureate World School*

## **Advanced Math Course Syllabus 2016-2017**

Mrs. Badalyan BE1, [badalyan.irina@pusd.us](mailto:badalyan.irina@pusd.us) 626/396-5820X80401

### **Course Description**

Advanced Math provides students with the mathematical background needed in calculus course. Students will learn how to solve problems numerically, graphically and analytically. They will learn how to incorporate technology to help them explore, investigate and analyze problems independently. The course will begin with a review of different types of functions and their roots. Students will learn how to use each function to model real world situations. They will be introduced to topics in trigonometry, Probability and Statistics and Linear Algebra.

**Prerequisite:** “C” or better in Algebra2 and teacher’s recommendation.

TEXTbook: Ron Larson, Robert Hostetler, (2007), Precalculus with limits, HMC. [www.classzone.com](http://www.classzone.com)

### **Topics covered in the course**

#### **First semester**

- **Number Patterns**
- **Equations and inequalities**
- **Functions and Graphs**
- **Polynomial and Rational functions**
- **EXponential and Logarithmic functions**

#### **Second semester**

- **Trigonometric Graphs**
- **Solving Trig equations**
- **Trigonometric identities and Proofs**
- **Trigonometric Applications**
- **Statistics and Probability**

### **Grading Policy**

|           |     |                      |     |
|-----------|-----|----------------------|-----|
| Homework  | 10% | Quizzes and projects | 20% |
| Classwork | 10% | TESTS                | 60% |

### **Materials**

Students need to bring the following material to class everyday.

Notebook, ruled paper, writing tools, calculator

Textbook (only for notified days)

### **Homework assignments and policy**

HW will be assigned daily and checked the next day except for a holidays. All assignments and notes must be organized in a HW notebook. Each complete HW is 2 pts. Students are expected to make the necessary corrections in Class. Missing HW could be turned in the very next day earning a partial credit. If a student was absent on a due day, then he/she can turn in his/her HW upon returning to school within as many school days as he/she has been absent with no points deducted. If it takes more than that, no full credit will be assigned.

An accurate and diligently done daily HW is expected.

Weekly HW assignments will be printed and distributed every few weeks. The dates of the tests and quizzes will be indicated. No surprises.

## **Classwork**

Do Now: Each class meeting will start with a DO Now as a set of warm-up questions. Students must complete “Do Nows“ within approximately 5 minutes and turn in.

Notes taking/Class work: Notes taking is mandatory.

Exit Ticket: At the end of each period students will have a small assignment to help me assess their understanding. They can work in groups or individually to complete the task and turn in before leaving the classroom.

## **Attendance and Tardy Policy**

When a student is absent, it is his/her responsibility to makeup all missing assignments. There is no make up for a missed Do Now/Exit ticket activities and that will affect a student's academic grade.

Habitual tardiness or absence will result in a “U” citizenship grade.

There will not be any extra credit assignments given at student request. However, sometimes there will be in class extra points options for students.

## **Tutoring**

Tutoring Hours are not scheduled at this time, however, it will be available on Fridays from 3:00-3:30 pm in BE1 until further announcements.

## **Classroom Rules:**

Be respectful and considerate

Be polite and positive. No side conversations, no cell phones in class!

Be attentive and diligent, responsible and determined to learn.

Be on time and ready to participate in class discussions and activities.

Do not hesitate to ask for help

No food or drink ( except bottled water) is allowed in the classroom at any time. No excuses.

Use restroom/drinking fountains/phones before coming to class. You will not be allowed to leave the classroom for those needs.

**If a student doesn't follow classroom rules**, the actions will be taken up to a possible referral to dean's office.

Please feel free to contact me with your concerns, Please email me at [badalyan.irina@pusd.us](mailto:badalyan.irina@pusd.us)

I am looking forward to a successful year and i hope you do too.

Sincerely,

Mrs. Irina Badalyan

8/15/16

Advanced Math, 2016-2017, Mrs. Badalyan, 8/15/16

Please read my syllabus, sign the bottom portion, cut it along the line, and bring it back to me..

Students Last Name, First Name \_\_\_\_\_ Period \_\_\_\_\_

Parent?Guardian Last Name, First Name \_\_\_\_\_

The best contact( phone/email) to reach you \_\_\_\_\_

Signature(student and parent/guardian) \_\_\_\_\_ Date \_\_\_\_\_

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