

## Course Syllabus

North Atlanta High School  
IB Mathematics, SL  
2019-20 School Year

### TEACHER INFORMATION

Teacher: Mr. D. Ehrman

E-mail: [dpehrman@atlanta.k12.ga.us](mailto:dpehrman@atlanta.k12.ga.us)

Web Page: <http://ehrman.weebly.com/>

Sign up for text/email reminders: [Send a text to 81010 containing the class code @2h7d9d](#)

Room: 8117

Phone: 404-802-4700

Tutorial Day: 3:50 – 4:50 (most days☺)

Textbook: *Mathematics Standard Level*, Oxford, 2012, ISBN: 978-0-19-839011-4, Replacement Cost \$62

**Please read this statement and note your agreement on the signature form provided to students in class:**

As a stakeholder (parent and student) of North Atlanta High School, I will adhere to the academic honesty policy provided in the handbook and consistently and frequently monitor Infinite Campus for attendance and academic performance.

### Course and Topic Descriptions

The course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way. Students should, wherever possible, apply the mathematical knowledge they have acquired to solve realistic problem sets in the appropriate context.

The internally assessed component, the exploration, offers students the opportunity for developing independence in their mathematical learning. Students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas. The exploration also allows students to work without the time constraints of a written examination and to develop the skills they need for communicating mathematical ideas.

- Topic 1: Algebra
- Topic 2: Functions and Equations
- Topic 3: Circular Functions and Trigonometry
- Topic 4: Vectors
- Topic 5: Statistics and Probability
- Topic 6: Calculus

### IB Assessments

External Assessment – 80% of IB Score

There are two parts of this assessment. Paper 1 and Paper 2. They are both 1 hour and 30 minutes long with two sections and cover the entire syllabus. Section A is compulsory short-response questions and Section B is compulsory extended-response questions. The only difference is that on Paper 1, no calculator can be used.

Internal Assessment – 20% of IB Score

This component is internally assessed by the teacher and externally moderated by the IB at the end of the course. The Internal Assessment for IB Mathematics SL is an individual Mathematical Exploration. This is a piece of written work that involves investigating an area of mathematics.

### SUPPLIES

Students are required to bring the following to every class: 1 or 1 ½ inch 3-ring binder with dividers, notebook paper, Graph paper, Sharpened Pencils, and a Graphing calculator ... TI-84 is recommended but TI-Inspire CX (**not CAS!**) or TI-83 are also acceptable. NO CASIO!

## GRADING POLICY

### A. Course Grade Weights:

Assignment Categories	Description	SEMESTER Course Grade
Summative Assessments	Common Assessments, Unit Tests, Midterm Exams, Major Assignments, Projects	45%
Formative Assessments	Homework, classwork, quizzes, minor assignments	45%
Final Exam		10%

### B. APS Grading Scale:

A	90-100	B	80-89	C	70-79	F	0-69
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### C. Retest Policy (for Summative assessments only) See NAHS Student Handbook:

<https://www.atlantapublicschools.us/cms/lib/GA01000924/Centricity/Domain/11891/NAHS%20Student%20Handbook%202018-2019.pdf>

### D. Late Work Policy (for Formative Assignments only) See NAHS Student Handbook:

<https://www.atlantapublicschools.us/cms/lib/GA01000924/Centricity/Domain/11891/NAHS%20Student%20Handbook%202018-2019.pdf>

## CLASSROOM POLICIES

### A. Classroom Expectations:

1. **Be Prepared and on Time.** Be in your seat with all your supplies ready to learn when the bell rings.
2. **Take Pride in Your Work.** Be proud of what you accomplish, work hard, and do your best work - all with a positive attitude. Also – always exercise academic honesty and DO YOUR OWN WORK!
3. **Challenge Yourself.** Don't give up when the work is difficult. Willingly attempt to understand and solve all problems.
4. **Be a Team Player.** Work together towards success for every member of our class. Please offer assistance to those who need it and do not be afraid to ask for help.
5. **Be Kind and Courteous.** Negative comments, put-downs, and talking while someone is speaking will not be tolerated. Demonstrate respect for yourself and others.
6. **Leave all food and drinks outside the classroom.** Only water in a clear container will be allowed in the classroom.
7. **Abide by all the policies outlined in the North Atlanta Student Handbook.**

<https://www.atlantapublicschools.us/cms/lib/GA01000924/Centricity/Domain/11891/NAHS%20Student%20Handbook%202018-2019.pdf>

### B. Notebook

You are required to keep an organized 3 ring binder for this class. It should be divided into 6 sections by units. There will be random notebook checks and you must have all your work, notes, and handouts organized chronologically in the appropriate section.

### C. Attendance/Absences

- You are responsible for reading and following the school's attendance policy as stated in the student handbook.
- **For one-day absences:** on the day you return you should:
  1. Show me the homework that was due the day that you were absent.
  2. Find out what you missed. (Check website/remind feed and do work ahead of time when possible.)
  3. Copy any missed notes from a classmate.
  4. Complete any missed assignments by the next class period along with the current assignment.
  5. Take any test given on the day you were absent.
- For any lengthy or known absence, see me to decide on a make-up schedule. All work, including tests and quizzes, MUST be made up within two after-school help days upon return.

**Field Trips:** For any school field trip, college visit, special assembly, or anything that voluntarily take you out of my class, come clear it with me BEFORE the absence. This merely ensures that you minimize the impact the trip has on your success in my class.

**Homework:** Fill out online form. <https://goo.gl/forms/S5AOsJt9d6GRPpty2>