

Colfax High School Mathematics, Room 110
IB Math SL Part 1, Analysis and Approaches
Mr. Schwartz
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530-346-2284 x 2408

Welcome to what will be a challenging and interesting course. This course consists of topics selected to fill in the students' background in preparation either for continuous mathematics (calculus) or for the student who wants a strong quantitative background. The class will be taught to apply what we have learned to the real world.

The whole course is in Canvas and can be accessed through your Chromebook. There are a lot of practice problems and links to support videos in Canvas. All grades are done in Aeries. I am here before and after school and also available during our flex period. The best way to get help is to get it early by speaking with me in person or emailing me.

The outcomes for this class are:

ELO 1 Sequence and Series - Chapter 1

Number patterns and sigma notation, arithmetic, and geometric sequences, and series, binomial theorem

ELO 2 – Functions - Chapter 2

Work with all 5 types of functions, function notation, composite, Inverses, Domain, and Range

ELO 3 – Quadratics - Chapter 3 and 4

Graph Modeling relationships, slope, transformations, quadratics, applications

ELO 4 – Geometry and Trigonometry - Chapter 11

Three D shapes sine rule, the law of cosines, applications, unit circle

ELO 5 – Trig Functions - Chapter 12

Unit Circle, Radians, Exact vs. Approximate Value, Solve exact, radian, trig problems
Application problems

ELO 6 – Univariate Statistics - Chapter 6

Sampling, representing data, mean, median, mode, standard deviation

ELO 7 - Bivariate Statistics - Chapter 7

Modeling relationships between two data sets

ELO 8 - Probability - Chapter 8

Build spreadsheets, Identify different types of probability problems, Combinations, Permutations, Expected Value
Sample statistics and whole population statistics

ORGANIZATION OF THE CLASS

Instruction of this class is active participation. Students need to listen to demonstrations by their teacher, work on assignments individually or in groups, and complete all homework problems by the beginning of the next class meeting. You cannot learn mathematics by watching other people do it, you must participate! I am available for help before and after school.

Colfax High School Academic Integrity Policy-Link

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Absences, Tardies, and Cell Phones

Tardy #1-2 - student conversation

Tardy #3 - call home

Tardy #4 - Referral to the office, 1 hour detention

Cell phone out during class #1 - I keep until the end of day

Cell phone out during class #2 - Cell phone sent to office till end of day, 1 hour detention

Grading

85% of the grade is tests and quizzes

15% of the grade is homework

Test Retakes - must be completed 7 days after the original test, the retake grade is averaged with the first grade.

Grading Scale	
Letter Grade	Percent Grade
A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	65-66
F	Below 65

Class Philosophy

The three key words in my class are: **HONESTY, RESPECT, and DILIGENCE.**

Honest to self and others.

Respectful to the other students and to myself. Respect means that you are prompt, prepared, that you participate, and that you are courteous to the people around you.

Diligent means to work hard, to be on time, to turn in your work on time, to complete all your assignments with quality.

I understand the requirements and expectations and will strive to do quality work in this course.

Student's Signature

I have read the course description and have discussed it with my son/daughter.

Parent's Signature