

Math Analysis Course Syllabus

Course Title: Math Analysis

Grade Level(s): 11 - 12

Instructor: Jason Dias
Plan Period: 1st hour
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Course Description:

Math Analysis: The students will review concepts learned in all previous math classes. Additional topics will include: probability, modern algebra, trigonometry, polar and rectangular coordinates, limits, and an introduction to calculus. Introduction to a graphing calculator will be another important topic. WEIGHT: 1.3

Course Objectives:

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| MA1-1 | The student will determine understand the basics of trigonometry using sine, cosine, and tangent |
| MA1-2 | The student will calculate the probability of any event including independent and dependent events. |
| MA1-3 | The student will use and convert from polar to rectangular coordinates |
| MA1-4 | The student will use modern algebra to solve real life problems |
| MA1-5 | The student will use the definition of a limit to perform introductory calculus problems |
| MA1-6 | The student will understand and utilize the graphing calculator along with our senteo response system |

Instructional Strategies/Learning Activities:

Lectures and guided practice: Lectures will be a part of everyday class. Lectures will cover the new material along with example problems done as a class.

Cooperative Learning: Other activities done in class will be ACT preparation and critical thinking problems. These will be done in both groups and individual practices.

Technology: The graphing calculator and the senteo response system will be helpful tools to influence new and old material.

Student Grade Will be Based Upon:

Homework will be given on a daily basis and possible quizzes will be given once a week. This is 20% of your grade. *Take notice* that homework will be graded at the beginning of each class period and *all work* must be shown for full credit.

Tests will be given every four to five lessons unless instructed otherwise. Tests will count as 80% of your grade.

Make-up work /NO LATE WORK!!!!

Each student is responsible for his/her own work. Missed work must be completed within 2 days of the day missed or before a chapter test or the points will not be rewarded.

*Late homework will **NOT** be accepted!!* The only exception is an excused absence or a justified reason why you did not get your work done. In this case I will work with you to get the work turned in. Math is linked together like a puzzle, and if a part of the puzzle is skipped, further progress is delayed. If something is not understood, I am always willing to help.

Be courteous to others and always have a positive attitude.

Classroom Rules/Expectations:

1. Be in class on time
2. Respect others and be polite
3. Bring all materials to class
4. Follow directions