



Pre-Calculus

Mrs. Bobbi Galarno



Contact Information

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Course Description:

Calculus has two branches, differential calculus and integral calculus. Differential calculus deals mainly with variable, or changing, quantities. Integral calculus deals mainly with finding sums of infinitesimally small quantities. This generally involves finding a limit.

Course Prerequisites: successful completion of Algebra 1, Geometry and Algebra 2

Textbook: Advanced Mathematical Concepts from Glencoe

Course Objectives

Upon finishing this year's coursework, students will have learned:

- Note-taking strategies
- MME Proficiency Skills
- Mathematical problem solving skills
- Reading comprehension skills
- Mathematics Curriculum Framework: Mathematics Standards
- Writing strategies in mathematics
- Cooperative learning skills
- Speaking and listening skills
- Standardized Test Preparation

Course Outline

| TERM | First Semester - |
|------|--|
| 1 | Chapter 1: Linear relations & Functions Chapter 2: Systems of Linear Equations & inequalities Chapter 3: The nature of graphs |
| 2 | Chapter 4: Polynomial & rational functions Chapter 5: The trigonometric functions Chapter 6: Graphs of trigonometric functions |
| | Second Semester |

| | |
|----------|--|
| 3 | Chapter 7: Trigonometric identities & equations Chapter 8: Vectors & parametric equations Chapter 9: Polar coordinates & complex numbers |
| 4 | Chapter 10: Conics Chapter 11: Exponential & Logarithmic functions Chapter 12: Sequences & series |

All Students are graded on the following academic components.

| Grade Categories | Description of the requirements | Graded on a total point system |
|------------------------|--|----------------------------------|
| Assignments & Projects | Book work, Handouts, writings & Group Work | 10 - 30 pts per assignment |
| Notebook or Binder | Syllabus, Notes, Class Writings, Returned Assignments, Quizzes & Tests | 100 - 150 pts per marking period |
| Tests / Quizzes | Bi-weekly test or quiz | 20-60 pts. Each |
| Final Exam | 3 - 4 page cumulative test using multiple choice District Final Exams | 20 % of semester grade |

Saginaw Public Schools Grading Procedures

| | | | | | |
|----------------|---|----|------------|---|----|
| Teacher Option | = | A+ | 74 - 77.9% | = | C |
| 94 - 100% | = | A | 70 - 73.9% | = | C- |
| 90 - 93.9% | = | A- | 68 - 69.9% | = | D+ |
| 88 - 89.9% | = | B+ | 64 - 67.9% | = | D |
| 84 - 87.9% | = | B | 60 - 63.9% | = | D- |
| 80 - 83.9% | = | B- | 0 - 59.9% | = | E |
| 78 - 79.9% | = | C+ | | | |

Directions for calculating semester grades

Marking period 1 is weighted 40%

Marking period 2 is 40%

Final exam is 20%

You take the percent you received in each area and multiply it by the percentage of the weight it carries. This will give you the weighted average of each area. Then you can add the percentages up to see your overall percentage. if you received an 85% Marking period 1 and a 70% in Marking period 2, a 75% for the final exam, you would have...

$$85\%(.40) + 70\%(.40) + 75\%(.20) = 34 + 28 + 15 = 77\% \text{ overall.}$$