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| Course Title: | Pre-Calculus |
| Teacher: | Mr. M. Belfer |
| School Phone: | 843-264-3414 |
| Email: | mbelfer@gcsd.k12.sc.us |
| Planning/Conf. Time: | Available by Appointment |

I. Course Description and Instructional Goals:

This course is designed for the student who has demonstrated an exceptional aptitude and interest in mathematics. This course is a program of mathematical studies focusing on the development of the student's ability to understand and apply the study of functions and advanced mathematics concepts to solve problems. The course will include an in-depth study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Other topics studied are sequences, series, vectors, conic sections, parametric equations, and polar curves. Emphasis is placed on active participation through group activities and communication in mathematics. Students are expected to use technology, including graphing calculators, computers, and data-gathering equipment throughout the course. Additional topics may be explored.

II. Instructional Model:

Daily Warm-Ups, Teacher-Directed Instruction, Cooperative Learning, Independent Study, Investigation/Exploration

III. South Carolina School Grading Scale:

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| 100 – 90 | A |
| 89 – 80 | B |
| 79 – 70 | C |
| 69 – 60 | D |
| 59 – 0 | F |

IV. Course Grading Policy

- Major Assignments 40%
(Test and large projects)
- Quizzes: 35%
(Small test and small projects, or journal writing)
- Practice: 25%
(Homework, class-work, journal writing)

V. Materials/Textbooks/Technology:

- Pre-Calculus Textbook
- Manipulatives and math tools
- Graphing Calculators
- Computers with mathematics software and Internet access

VI. Assessments May Include:

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| • Diagnostic Tests | • Interviews | • Chapter, Unit, Cumulative, or Comprehensive Tests |
| • Performance based Tasks and Discussions | • Conferences | • Standardized Tests |
| • Projects | • Journal Entries | |
| • Presentations | • Portfolios | |
| • Observations | • Homework | |
| | • Quizzes | |

VI. Grading Policy

- | | |
|---------------------|---|
| • Major Assignments | 40% (test and large projects) |
| • Quizzes: | 35% (small test and small projects, or journal writing) |
| • Practice: | 25% (homework, classwork, journal writing) |

VIII. Homework Policy

Homework assignments will be a standards based extension of the learning that takes place in the classroom. An assignment log will be given every Monday. Homework assignments are based on efforts. Homework assignments will be graded at the teacher's discretion.

IX. Classroom Requirements

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| • Textbook | • Pencils |
| • 3-Ring Binder with dividers | • Calculator (Graphing or Scientific) |