Pre-Calculus

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Course Description: This course is both a culmination of student' previous work in Algebra and Geometry, as well as a bridge into the concepts of Calculus and subsequent higher level math courses. In this course we will be dealing with a variety of different functions, including but not limited to polynomial, rational, exponential, logarithmic, and trigonometric functions. We will expand on this foundation in the second semester when the topics we will cover will include systems of equations, sequences and series, probability, conic section, polar functions, limits, derivatives, and min.-max. application problems. This class will be offered for college credit through Everett Community College. (details will come in late September)

Course Syllabus: We will cover the following topics from our course textbook. Please keep in mind that this is a tentative schedule that includes both semesters and we will make any necessary adjustments. Following chapter 12, the remainder of the year will consist of handouts. The handouts will cover limits, derivatives and min./max. application problems.

Semester One:
Prerequisites: P.2 Graphs and Graphing Utilities
Chap. 1: Functions and Their Graphs (sections 1.1-1.5)
Chap. 2: Polynomial and Rational Functions (sections 2.1-2.7)
Chap. 3: Exponential and Logarithmic Functions (sections 3.1-3.5)
Chap. 7: Systems of Equations and Inequalities (sections 7.1-7.6)
Chap. 10: Topics in Analytic Geometry (sections 10.1-10.3)
Chap. 9: Sequences, Probability, and Statistics (sections 9.1-9.4)
Semester Two:
Chap. 4: Trigonometric Functions (sections 4.1-4.8)
Chap. 6: Additional Topics in Trigonometry (sections 6.1-6.2)
Chap. 5: Analytic Trigonometry (sections 5.1-5.5)
Chap. 10: Parametric and Polar (sections 10.5-10.6, plus worksheets)
Chap. 11: Vectors (sections 6.3, 6.4, 11.2, 11.3)
Chap. 12: Limits and an Introduction to Calculus (sections 12.1-12.2, plus worksheets)

Required Material:

- Pre-Calculus Textbook (a classroom set should be provided)
- Graphing calculator (TI 83 plus or TI 84 plus recommended)
- Pencil or pen
- Paper
- Handout specific to the chapter we are studying
- Composition notebook (one with graph paper preferred)

Evaluation/Grading: At the conclusion of every chapter a short answer test will be used as the assessment tool for those particular chapters' objectives. Students may come in before or after school to spend more time reviewing their test if they wish. Tests/Quizzes make up 85% of the student's grade with the remaining 15% coming from their daily work. Homework will be given on a daily basis. We will discuss the homework in class the following day. Tests occur about every 2-3 weeks. Homework is graded on a 5 point scale.

5 points: 100% of assigned work is completed, accurate and required work is shown. Assignment and work is neat and organized. Answers are easily identified. Work is handed in by the assigned date.

4 points: At least 80% of assigned work is completed, accurate and required work is shown. Completed work is readable. Answers are easily identified. Work is handed in by the assigned date.

3 points: At least 50% of assigned work is completed, accurate and required work is shown. Completed work is readable. Answers are easily identified. Work is handed in by the assigned date.

OR

Assignment meets standard and is handed in after the assigned date, but prior the corresponding unit test.

OR

Assignment meeting the above standards with little or no required work shown.

2 points: Less than 50% of the work is completed but, more than 25%, accurate and required work is shown.

0 points: Less than 25% of the work is completed.
Work not turned in or after the corresponding test.
Meets 2 point level with little or no work shown.

Project: A project will be assigned each semester. The first semester project will follow chapter 2. The second semester project will happen just before or after Spring Break.

Grading Scale:

93-100%	A	77-79.99%	C+	Earning 59.99% and below will result in a failing grade.
90-92.99%	A-	73-76.99%	C	
87-89.99%	B+	70-72.99%	C-	
83-86.99%	B	67-69.99%	D+	
80-82.99%	B-	60-66.99%	D	

Please remove this page and return it. Thank you.

Pre-Calculus Mr. R. Tompkins

I have read the information on the previous pages and discussed it with my son/daughter.

Student_____ _____
Print Signature

Parent_____ _____
Print Signature

Please indicate which of the following methods you would most prefer me to use when making contact.

Internet availability Yes/No

Home Phone _____

Work Phone _____

Cell Phone _____

Parent's E-mail _____

Thank you

Ray Tompkins