

## PRE-CALCULUS SYLLABUS 2011-2012

Instructor: Dr. Hill

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**Welcome to a St. Paul's Preparatory Academy Pre-Calculus class. This course prepares the student for a course in Calculus because this class integrates concepts and skills related to Calculus throughout the program. If you have any question or concerns about this course please feel free to call me at school. Leave a message with the receptionist at 817-561-3501, or you can e-mail me and I will respond to you as soon as possible.**

### Materials Needed For Class

- 1. Graphing Calculator**
- 2. Notebook Paper**
- 3. Pencils**
- 4. Textbook: Glencoe Advanced Mathematical Concepts**

### **Course Grading System:**

- A. Classwork/Homework – 15%**
- B. Laboratory Reports and Special Projects – 20%**
- C. Quizzes – 20%**
- D. Tests – 45%**

### **Course Expectations:**

- A. Homework policy – Homework assignments will receive a grade of 100 if turned in on time. If an assignment is incomplete or not turned in, it will receive a grade of 0. If the assignment is turned in completed when the class meets again, the grade will be changed to a 50.**
- B. Extra Credit work – No extra credit for students who have chosen not to attend class, not to participate in class, not to study or do homework, nor perform well on tests.**
- C. Final Exam – The final exam will be comprehensive and will count for 20% of the final grade.**
- D. Make-up – Quizzes will not be made up. Excused absences on a test day will allow a make-up test.**
- E. Prompt and Prepared – Students are graded on being on time, and being prepared (having needed supplies and assignments) before class starts.**
- F. Expect a QUIZ daily!**

# Precalculus Syllabus

## First Semester

### First 9 Weeks

Week 1:	<b>Ch 1: Linear Relations and Functions 1.1 – 1.2</b>
Week 2:	<b>Ch 1: Linear Relations and Functions 1.3 – 1.4</b>
Week 3:	<b><u>Test 1</u> and Ch 1: cont'd</b>
Week 4:	<b>Ch 1: Linear Relations and Functions 1.5 – 1.6</b>
Week 5:	<b>Ch 1: Linear Relations and Functions 1.7 – 1.8</b>
Week 6:	<b><u>Test 2</u> and Ch 2: Systems of Equations</b>
Week 7:	<b>Ch 2: Systems of Linear Equations and Inequalities</b>
Week 8:	<b>Ch 2: Systems of Linear Equations and Inequalities</b>
Week 9:	<b>Ch 2: Systems of Equations and <u>Test 3</u></b>

### Second 9 Weeks

Week 10:	<b>Ch 3: The Nature of Graphs 3.1</b>
Week 11:	<b>Ch 3: The Nature of Graphs 3.2 – 3.3</b>
Week 12:	<b><u>Test 4</u> and Ch 4: Polynomial and Rational Functions</b>
Week 13:	<b>Ch 4: Polynomial and Rational Functions 4.2 – 4.3</b>
Week 14:	<b>Ch 4: Polynomial and Rational Functions 4.4 – 4.7</b>
Week 15:	<b><u>Test 5</u> and Ch 5: The Trigonometric Functions</b>
Week 16:	<b>Ch 5: The Trigonometric Functions 5.2 – 5.5</b>
Week 17:	<b>Ch 5: The Trigonometric Functions 5.6 – 5.8</b>
Week 18:	<b>Semester Exam: Ch 1-5</b>

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## Second Semester

### Third 9 Weeks

Week 19:	<b>Ch 6: Graphs of Trigonometric Functions 6.1</b>
Week 20:	<b>Ch 6: Graphs of Trigonometric Functions 6.2</b>
Week 21:	<b><u>Test 6</u> and Ch 7: Trig Identities and Equations</b>
Week 22:	<b>Ch 7: Trig Identities and Equations 7.1 – 7.2</b>
Week 23:	<b>Ch 7: Trig Identities and Equations 7.3 – 7.4</b>
Week 24:	<b><u>Test 7</u> and Ch 8: Vectors and Parametric Equations</b>
Week 25:	<b>Ch 8: Vectors and Parametric Equations 8.2 – 8.3</b>
Week 26:	<b>Ch 8: Vectors and Parametric Equations 8.4 – 8.6</b>
Week 27:	<b>Ch 8 cont'd and <u>Test 8</u></b>

### Fourth 9 Weeks

Week 28:	<b>Ch 11: Exponential and Logarithmic Functions</b>
Week 29:	<b>Ch 11: Exponential and Logarithmic Functions</b>
Week 30:	<b><u>Test 9</u> &amp; Ch 15: Intro to Calculus</b>
Week 31:	<b>Ch 15: Intro to Calculus 15.2</b>
Week 32:	<b>Ch 15: Intro to Calculus 15.3</b>
Week 33:	<b><u>Test 10</u> and Ch 15: Intro to Calculus 15.4</b>
Week 34:	<b>Ch 15: Intro to Calculus 15.4 cont'd</b>
Week 35:	<b>Pre-Calculus Course Review</b>
Week 36:	<b>Final Comprehensive Exam</b>