



# PRE-CALCULUS 11

TEACHER: Mr. Basil Williams

ROOM: 109

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TEXTBOOK: iWrite Math 11: Pre-Calculus Mathematics – BC Edition

## COURSE OBJECTIVE

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Pre-Calculus 11 is designed to build foundational skills in algebra, trigonometry, and mathematical reasoning in preparation for advanced studies in mathematics and science. Students will explore exponents, radicals, quadratic functions, trigonometric relationships, rational expressions, and inequalities. Emphasis is placed on developing problem-solving strategies, abstract thinking, and the ability to model and analyze real-world and theoretical situations.

## COURSE CONTENT

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### Term 1

Unit 0: Problem Solving and Reflective Practice

Unit 1: Exponents and Radicals

Unit 2: Operations on Radicals

Unit 3: Factoring and Applications

### Term 2

Unit 4: Trigonometry – Angles and Ratios

Unit 5: Trigonometry – Sine and Cosine Laws

Unit 6: Quadratic Functions and Equations

### Term 3

Unit 7: Rational Expressions and Equations

Unit 8: Inequalities

Unit 9: Financial Mathematics

Final Exam Preparation and Assessment



## SUPPLEMENTARY RESOURCES

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YouTube: *Mathematics is the sense you never knew you had* | Eddie Woo | TEDxSydney

Book: *A Mathematician Reads the Newspaper* – John Allen Paulos

Book: *How Not to Be Wrong: The Power of Mathematical Thinking* – Jordan Ellenberg

Book: *Mathematical Sorcery* – David Berlinski

## SUPPLIES (to be brought to every class)

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2-inch 3-RING binder with lined paper

Pencils, eraser, Ruler\*, Protractor\*, Compass (OR \*Complete Geometry set)

Scientific or Graphing Calculator (Recommended models: TI-83/84 or Desmos app)

## MARK BREAKDOWN

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### Classwork 40%

Includes readings, activities, and workbook assignments.

### Quizzes 20%

There will be a quiz on the topics we covered in class after each unit is completed.

### Mid and Term Finals 20%

Both mid and term finals will be cumulative tests covering multiple units.

### Final Exam 20%

There will be a final examination covering the entire course.