

Pre-Calculus 11 Course Outline

Unit – Patterns

- arithmetic sequences
- arithmetic series
- geometric sequences
- geometric series
- infinite geometric series
- angles in standard position
- trig ratios
- sine law
- cosine law

Unit – Quadratics

- quadratic functions in vertex finding form
- quadratic functions in standard form
- completing the square
- graphical solutions of quadratic equations
- factoring quadratic equations
- solving quadratic equations by completing the square
- the quadratic formula

Unit – Functions and Relations

- radicals
- multiplying and dividing radical expressions
- radical equations
- rational expressions
- multiplying and dividing rational expressions
- adding and subtracting rational expressions
- rational equations
- absolute value
- absolute value functions
- absolute value equations
- reciprocal functions

Unit – Systems of Linear Inequalities

- solving systems of equations graphically
- solving systems of equations algebraically
- linear inequalities in 2 variables
- quadratic inequalities in one variable
- quadratic inequalities in 2 variables