

Pre-Calculus Mathematics 40S

Credit Value: 1.0

Pre-requisite: Pre-Calculus Mathematics 30S

Course Description:

This is the final course of the “Specialized” program for high school Mathematics. It is designed to meet the needs of those students wishing to pursue further studies in Mathematics, Science, Business or Technology at post-secondary institutions. Students will find this course the most challenging mathematics taken thus far, but it will provide an easier transition from high school to college or university.

The curriculum is written to provide the student with a good foundation of all the mathematics, with the exception of calculus, required at the secondary level.

Pre-Calculus Mathematics 40S is divided into the following eight topics. Connections among the various units are emphasized.

Core Topics:

- a) Circular Functions
- b) Transformations
- c) Exponents and logarithms
- d) Permutations, Combinations and Binomial Theorem
- e) Probability
- f) Conics
- g) Statistics
- h) Geometric Sequences and Series