Pre-Calculus 12

Learning Outcomes: The activities in this course are based on the core competencies and curricular competencies as provided by the Ministry of Education of BC and will introduce students to three key ideas: Using inverses is the foundation of solving equations and can be extended to relationships between functions, understanding the characteristics of families of functions allows us to model and understand relationships and to build connections between classes of functions, and transformations of shapes extend to functions and relations in all their representations.

View the complete Ministry of Education learning outcomes for this course: Pre-Calculus 12

Resources: Students require the following: Pencil, coloured pens, lined paper, grid paper, 4-line display scientific calculator, printer/scanner. All other resources are provided within the course. Students will need good access to the Internet and will be required to use online tools.

Exams: All exams and quizzes require a password and are to be invigilated by a teacher at your school or an approved testing center. At the conclusion of this course, learners have an opportunity to rewrite one unit exam of their choosing. Exams may cause anxiety for some students. See your teacher for study skills if necessary.

Communication: Assignments are submitted directly through your course. Constant communication with your teacher is key to success in a DL course. Phone or email or message your teacher for help whenever necessary.

Goal Setting: This course is self-paced and self-directed. Students should plan on working 5-6 hours a week on this course. It is highly recommended that the student creates a calendar of monthly, weekly and even daily goals. Contact your teacher if help is needed doing this.

Learning Guides/Projects: Print out unit learning guide, complete and upload in pdf form. Once mastered, select and complete a unit project, then upload in pdf form. Please ensure these are neat and organized. Learning guides must be submitted before writing unit exams.

PREREQUISITE: It is recommended that learners have achieved a minimum grade of 60% in Pre-Calculus 11. A solid understanding of the topics covered in Pre-Calculus 11 is needed to ensure success in this course.

Unit 1: Series and Sequences
Unit 2: Transformations of Functions
Unit 3: Polynomial Functions and Equations
Unit 4: Exponential and Logarithmic Functions and Equations
Unit 5: Rational Functions and Equations
Unit 6: Trigonometric Functions
Unit 7: Trigonometric Equations and Identities

Assessment

Assessments and Final Exam

*all supervised exams must be written at your school or an approved testing center. Students who reside out of SD73 boundaries have the option to meet the teacher over zoom to complete exams.

This 4-credit course will be broken down as follows:

Unit Assignments, Activities, Explorations - 30% of the overall grade.
Unit Exams - 50% of the overall grade.
Final Exam - 20% of the overall grade.