ST. JOSEPH CATHOLIC SECONDARY SCHOOL
COURSE OUTLINE

Name of Course/Course Code: Functions and Applications/MCF 3M

Course Description: This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modeling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions, solve equations, and solve problems relation to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Catholic Graduate Expectations:

The mind and its capacity for rational analysis are seen as gifts from the Creator to be used and enjoyed. The training of the intellect ensures that all knowledge can be scrutinized and the divine and the human more deeply understood. In this sense, knowledge is illuminated with the light of faith. In Catholic education, the commitment to maturity of mind and academic excellence is always in reference to God's revealed wisdom as to life's purpose and meaning.

Course Prerequisite: MPM 2D or MFM 2P

Units of Study

Unit 1	Simple Interest
Unit 2	Compound Interest
Unit 3	Annuities
Unit 4	Sequences and Series
Unit 5	Exponential Growth and Decay
Unit 6	Exponents and Radicals
Unit 7	Functions, Quadratics and Algebraic Skills
Unit 8	Trigonometry

Evaluation

70%	30%
Knowledge/Understanding	Culminating Task and Exam
Thinking/Inquiry	
Communication	
Application	

Course Resources Required

Paper
Pencils and erasers
Scientific Calculator
Textbook (provided)

For a detailed course description of this course, please visit
*https://www.edu.gov.on.ca/eng/**curriculum**/secondary/subjects.htm*