

ST. JOSEPH CATHOLIC SECONDARY SCHOOL
COURSE OUTLINE



Functions / MCR3U

Course Description:

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. 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 MPM2D

Units of Study

Unit 1	<i>Rational Expressions</i>
Unit 2	Functions
Unit 3	Trigonometry
Unit 4	Sinusoidal Functions
Unit 5	Quadratics
Unit 6	Exponential Functions
Unit 7	Sequences and Series
Unit 8	Finance

Evaluation

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

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Course Resources Required:

Paper
Pencils/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>