

ST. THOMAS AQUINAS SECONDARY SCHOOL

25 Corporation Drive Brampton ON, L6S 6A2 Phone: 905.791.1195

We believe that each one, created in the image and likeness of God, is called by name into the Dufferin-Peel community to realize the Ontario Catholic School Graduate Expectations to the fullest extent as we all journey from the early years to vocation.

COURSE OUTLINE

Department Name:	Mathematics	
Course Name:	Grade 11 University Mathematics	

Course Name:	Grade 11 University Mathematics	
Course Code and Section:	MCR3U1	

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; and			
develop facility in simplifying polynomial and rational expressions. Students will reason			
mathematically and communicate their thinking as they solve multi-step problems.			
Prerequisite: MPM2D1 (10 Academic) with a minimum 70% strongly recommended.			
Strand / Units	Catholic Graduate Expectations		
1 Introduction to Functions	The course will help students address the Ontario Catholic School Graduate		
2 Equivalent Algebraic	Expectations that they adopt a holistic approach to life by integrating learning		
Expressions	from various subject areas and experience, including		
3 Quadratic Functions	1) A reflective and creative thinker who evaluates situations & solves problems.		
4 Exponential Functions	2) A self-directed, responsible learner who sets appropriate goals and priorities in		
5 Trigonometric Ratios	school, work and personal life, and applies effective communication, decision-		
6 Sinusoidal Functions	making, problem-solving, and time management skills.		
7 Sequences and Series	3) A collaborative contributor who achieves excellence, originality, and integrity		
8 Financial Applications	in one's own work and supports these qualities in the work of others.		
	4) A responsible citizen who accepts accountability for one's own actions.		

Assessment and Evaluation:

Category Weightings	Weight
Knowledge/Understanding	30
Thinking	20
Application	30
Communication	20

Final Summative Assessments	Grade Distribution
Term Work	70
Exam	30