SOUTH CARLETON HIGH SCHOOL

Ottawa-Carleton District School Board STUDENT OUTLINE

MBF3C

MATHEMATICS OF PERSONAL FINANCE COLLEGE 11

Hours: 110 Prerequisite: MFM2P

Expectations

Credit Value: 1 credit

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, an evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their understanding.

Course Expectations

Strand	Overall Expectations		
Mathematical	Connect numeric, graphical and algebraic representations of quadratic relations/ solve problems; exponents		
models	and exponential relations/ solve problems using exponential relations in real-world applications		
Personal	Compare simple and compound interest; relate compound interest to exponential growth; compare financial		
Finance	institutions; problems wrt credit; interpret information about owning/operation a vehicle; and solve problems		
	regarding costs		
Geometry and	Represent 2-D/3-D shapes and figures in real world applications; solve design problems; solve acute triangles		
Trigonometry	using sine and cosine laws – real world applications		
Data	Solve problems involving 1-variable data; determine probability; identify and interpret its applications		
Management			

Accommodations for Exceptional Students

The Mathematics department makes every effort to accommodate the identified needs of exceptional (IPRC'd) students and will attempt to differentiate curriculum delivery methods, student modes of expression, and assessment methods as recommended by the student's individual education plan (IEP).

Career Planning

The Mathematics department makes every effort to ensure students are aware of career opportunities related to various fields of Mathematics. In particular, the teacher will help the student to be aware of "real world" applications of the topics presented in this course.

Technology and Textbooks

Students will have the opportunity to use available software in Mathematics appropriate to the course including software packages: Geometer's Sketchpad and Excel. Graphing calculators will also be available to the students.

Calculators Each student requires a scientific calculator that will be used on a daily basis. Graphing

calculators will be supplied when required.

Resources Foundations for College Mathematics 11, McGraw-Hill Ryerson

Evaluation

Term reports	Final Report	
Students will be evaluated on the overall expectations listed above. Evaluations will cover a balance of Knowledge & Understanding, Application, Communication, Thinking, Inquiry and Problem Solving.	Term Summative task* Final Exam **	70% 10% <u>20%</u> 100%
Assessment tools include tests/quizzes, assignments, performance tasks and rich assessment tasks	* may include an in-class task towards the end of term ** will evaluate whole term's work	

More information on South Carleton High School's policy on Assessment and Evaluation and on Academic Integrity can be accessed on our school website.

Please see **Student Planner** for policies on punctuality, absenteeism and examinations, and other student responsibilities.