

SOUTH CARLETON HIGH SCHOOL

Ottawa-Carleton District School Board

STUDENT OUTLINE**MAP4C**

COLLEGE AND APPRENTICESHIP MATHEMATICS 12

COLLEGE

Credit Value: 1 credit

Hours: 110

Prerequisite: MBF3C

Expectations

This course equips students with the mathematical knowledge and skills they need in many college programs. Students will use statistical methods to analyse problems; solve problems involving the application of principles of geometry and measurement to the design and construction of physical models; solve problems involving trigonometry in triangles; and consolidate their skills in analyzing and interpreting mathematical models.

Course Expectations

Unit Title	Overall Expectations
Application of Statistics	Collect, analyze, and evaluate the data involving one variable and two variables; analyze significant problems or issues using statistics; evaluate the validity of the use of statistics in the media
Applications of Geometry, Measurement, and Trigonometry	Demonstrate an understanding of the relationship between 3-dimensional objects and their 2-dimensional representations; solve problems using measurement and trigonometry in triangles.
Analysis of Mathematical Models	Interpret and analyze graphical models, given formulaic models, and data given in a variety of forms

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: Zap-a-Graph, MathTrek and Geometer's Sketchpad. 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

College and Apprenticeship Mathematics 12, Addison Wesley

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	70%
	Summative Evaluation*	10%
	Final Exam **	<u>20%</u>
		100%
<i>Assessment tools include tests/quizzes, assignments, performance tasks and rich assessment tasks</i>	* may include an n-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.