



# Westside Secondary School

Orangeville, Ontario, Canada



519-938-9355

## Course Outline

[www.ugdsb.on.ca/westside](http://www.ugdsb.on.ca/westside)

**Course:** MCF 3M  
**Teacher(s):** S. Sabatine

**Program Leader:** Rob Marchildon  
**Email:** [susanne.sabatine@ugdsb.on.ca](mailto:susanne.sabatine@ugdsb.on.ca)

### 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 relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

### Big Ideas (overall learning outcomes for the course):

- Modelling situations in real life with functions helps us make educated predictions.
- Looking for patterns in math helps us better understand the world around us.
- Knowledge is power.

**Achievement Categories:** Student learning is assessed and evaluated with respect to the following four categories of knowledge and skills.

**Knowledge and Understanding:** 25 %  
**Thinking:** 25%  
**Communication:** 25 %  
**Application:** 25%

### Assessment and Evaluation:

Formative assessments are used to improve student learning by providing varied opportunities to demonstrate an understanding of course expectations in preparation for summative evaluations. Students will have the opportunity to complete mastery quizzes throughout each unit which may lead to a reduced summative assessment. Summative evaluations test groups of key expectations. Failure to complete a summative evaluation may result in the expectations of the course not being met and the credit not being granted.

The following soft skills will be assessed:

*Responsibility, Organization, Independent Work, Collaboration, Initiative, Self-Regulation*

More details about Westside's Assessment and Evaluation Policy is available at: <http://www.ugdsb.ca/westside/wp-content/uploads/sites/74/2016/12/Westside-Assessment.pdf>

### Student Expectations:

Every student enrolled in Mathematics at Westside is expected to:

- be prepared for class each and every day. This means you bring a writing utensil, calculator and paper with you to class
- actively participate in class discussions
- be on time to class
- complete assigned homework
- learn to problem solve using the techniques you will learn in class

### Late Policy:

Students are expected to complete all assigned work and submit it by the teacher's established due date. Every attempt will be made to encourage students to complete all assigned work on time so their grade represents their actual achievement. For late and missed summative assessments, please see the *Westside Students' Contract for Missing Evidence of Learning*.

	<b>Term Work (70%)</b>
<b>Unit of Study</b>	<b>Summative Evaluations</b>
Functions & Transformations	Test
Exponential Function	Test
Finance	Test and Assignment
Trigonometry	Test
Sinusoidal Functions	Test
Quadratics	Test
	<b>Final Summative (30%)</b>
Summative Task	at end of semester during last week (10-15%)
Final Exam	at end of semester during exam period (15-20%)

### **Course Materials and Replacement Cost**

Textbook: Functions and Applications 11 (Nelson)      **Cost: \$90**

### **Final Assessments/Examinations**

Culminating activities for each unit must be completed by the student in order to achieve the credit. Failure to complete any one of them may result in loss of credit.

**There are no extensions or exemptions for final assessments without the approval from an administrator.**

The following soft skills will be assessed:

Responsibility, Organization, Independent Work, Collaboration, Initiative, Self-Regulation

I have read and understand the Course Outline: (front and back)

Student Name (please print): \_\_\_\_\_ Signature: \_\_\_\_\_

Parent/Guardian Name (please print): \_\_\_\_\_ Signature: \_\_\_\_\_

Parent/Guardian email (please print): \_\_\_\_\_