



MISSISSAUGA SECONDARY SCHOOL

Grade 12 Advanced Functions

Course Overview

Course Code: MHF4U0

Credit Value: 1.0

Pre-requisite: MCR3U0 or
MCT4C0

Resource: Advanced Functions 12
Workbook
(\$10 replacement)

Course Description:

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.*

Course Breakdown:

Unit 1: Exponential and Logarithmic Functions

Unit 3: Polynomial and Rational Functions

Unit 2: Trigonometric Functions

Unit 4: Characteristics of Functions

Evaluation Breakdown:

70% (Term)	Knowledge & Understanding:	25%	The following assessment & evaluation instruments may be utilized to evaluate students on the four categories of knowledge and skill: <ul style="list-style-type: none"> • Tests & Quizzes • Assignments • Projects & Presentations
	Application:	25%	
	Communication:	5%	
	T.I.P.S. : (Thinking, Inquiring, Problem Solving)	15%	
30% (Summative)	Final Exam:	30%	
<p><u>Note:</u> The following Learning Skills will be assessed and recorded on the student's report card:</p> <p>• <i>Working Independently</i> • <i>Organization</i> • <i>Teamwork</i> • <i>Work Habits/Homework</i> • <i>Initiative</i></p>			

* For more information, please refer to the Ontario Ministry of Education Grade 12 Curriculum Outline at:

<http://www.edu.gov.on.ca/eng/curriculum/secondary/math1112currb.pdf>

Attendance & Punctuality:

Regular attendance to scheduled classes, and active participation in learning activities, will provide students with the experiences necessary to successfully complete this credit. Attending classes on time will ensure that there are no gaps in the student’s learning. Furthermore, it will also demonstrate commitment to learning, and respect for self & others. Please refer to the student agenda for more information regarding the Attendance and Punctuality Policy.

Homework:

Consistent homework completion is essential for student success. Although students will be given some class time to initiate their homework, they should expect an average of 30 minutes of homework each night. At the beginning of each unit or chapter, students will be given a homework outline. Consequently, students will have the opportunity to plan effectively, manage time efficiently, and work ahead, if possible. Lastly, homework will be monitored periodically, according to your teacher’s instruction.

Missed Evaluation:

Students will be given ample notice regarding the scheduled date for an evaluation. Students who know ahead of time that they will be absent for the evaluation, must discuss the situation with their teacher **beforehand**. Students who are unexpectedly absent for an evaluation for a legitimate reason (i.e. illness) must provide their teacher with a Mississauga Secondary School, Math Department, “REASON FOR ABSENCE” Form, which is available online at the course Angel site, as well as the MSS website (www.msslions.ca). A **completed** form must be submitted to your teacher **upon return**. All completed forms will be retained on file. If approved, the student will be given an opportunity to write an alternate evaluation on the immediate Thursday, during the student’s lunch period, in the specified classroom. For more details, please refer to the Math Department Information Board, which is located in the Math Forum area between Rooms 303 & 304.

Deadlines:

Students will be given ample notice regarding due dates for assignments. Students are expected to submit work to their teacher **on time**. Please refer to the student agenda for more information concerning the Deadlines Policy.

Extra Help:

Extra help is available to the student in many forms. Firstly, students are encouraged to seek assistance from their teacher, at the appropriate time during the regularly scheduled class. If further assistance is required, students may meet with their teacher during the office time specified by their teacher. **Please record it below**.

Teacher Name: _____	<u>Teacher Assistance Availability:</u>
	Mon. _____ Tues. _____ Wed. _____ Thur. _____ Fri. _____
	OR Day 1: _____ Day 2: _____ Day 3: _____ (Complete above as directed by your teacher)

I have read the Course Overview for MHF4U0.

Student Signature

Parent/Guardian Signature