



GEORGE HARVEY COLLEGIATE INSTITUTE

MHF4U – Grade 12 Advanced Functions, University



Teacher: A. Chor

Revision Date: September 2013

Assistant Curriculum Leader: A.Chor

Credit Value: One (1) Credit

Prerequisite: MCR3U Grade 11 Functions, University, or

MCT4C Grade 12 Mathematics for College Technology, College

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.

TEXTBOOK Advanced Functions 12 – McGraw-Hill Ryerson, 2008.
ISBN Number: 9780070266360 (Cost: \$93.32 plus taxes and shipping.)

REQUIRED MATERIALS

- 3-Ring Binder
- Scientific Calculator
- Writing Utensils
- Student Agenda

COMMUNICATION OF STUDENT ACHIEVEMENT

Student progress and achievement are communicated to the students on an on-going basis through: interim progress reports, student-teacher conferences, verbal/written feedbacks, daily practices, formative assessments, and summative evaluations. See student agenda for detailed information on mid-term and final reporting of student achievement of curriculum expectations and learning skills.

Learning is the responsibility of the students. If students experience any kind of difficulty with their studies, access to remedial help is available from the teacher by arrangement. The teacher may contact parents/guardians regarding any concerns about student progress and achievement.

A parent/guardian may contact the teacher regarding any concern or issue about student progress and achievement in person (preferably by appointment), by phone (416) 394-3180, or via email: angel.chor@tdsb.on.ca

ACCOMMODATIONS FOR EXCEPTIONAL AND ESL/ELD STUDENTS

Appropriate accommodations for exceptional and ESL/ELL students are provided by the teacher following recommendations as outlined in each identified student's Individual Education Plan (IEP) and/or Annual Education Plan (AEP). See student agenda for more information.

ASSESSMENT/EVALUATION

The assessment/evaluation in this course may consist of a combination of the following:

- Mini-Test/Tests
- Notebook
- Projects/Presentations
- Assignments
- Culminating Activity
- Written Exam

See online student agenda for detailed information on school policies regarding attendance, absences, late, homework, late assignments, missed work/evaluations, and academic integrity.
(<http://schoolweb.tdsb.on.ca/georgeharvey/StudentInformation/StudentAgenda.aspx>)

SUMMATIVE EVALUATION

Summative evaluation is represented by a percentage grade which is a weighted average of the four achievement categories as outlined in the Ontario curriculum documents:

Achievement Categories	Knowledge	Thinking/Inquiry	Communication	Application
Percentage Weightings	30%	20%	20%	30%

Term Evaluation (70%):

Unit	Topic	Approx. Time	Evaluations
1	Polynomial Functions	15 Hours	Quiz Unit Test (End of unit)
2	Polynomial Equations and Inequalities	15 Hours	Quiz/Assignment Unit Test (End of unit)
3	Rational Functions	15 Hours	Quiz/Assignment Unit Test (End of unit)
4	Trigonometry	15 Hours	Quiz/Assignment Unit Test (End of unit)
5	Trigonometric Functions	15 Hours	Mini-Tests (On-going) Unit Test (End of unit)
6	Exponential and Logarithmic Functions	15 Hours	Assignment Unit Test (End of unit)
7	Tools and Strategies for Solving Exponential and Logarithmic Equations	10 Hours	Quiz/Assignment Unit Test (End of unit)
8	Combining Functions <i>*Independent Study Unit</i>	10 Hours <i>March Break</i>	Mini-Tests / Quiz Unit Test (End of unit)

Each in-class assignment is worth a weight of 10, and each take-home assignment is worth a weight of 5.

Final Evaluation (30%):

Final evaluations cover all strands and overall curriculum expectations of the course, across all four achievement categories.

Final Exam	30%	End of course
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Note: Information provided by this course outline is subject to change without further written notice.

I have read the above information and I understand the expectations of this course.

Student Signature: _____

Parent/Guardian Signature: _____