MHF 4UI: Advanced Functions (Sem II 2018-19)

Teacher: Mr. P. Kennedy
Room: 2612
Textbook: Advanced Functions. Nelson. 2009.
Online Classroom: http://mrpkennedy.com/
Prerequisites: MCR 3UI (Gr.11 Functions/University Preparation)
or MCT 4CI (Gr.12 Mathematics for College Technology)

Course Outline

Welcome to Advanced Functions! This course is divided as:

TERM 1	TERM 2
Unit 1 – Functions: General Properties	**Unit 5** – Rational Functions, Equations and Inequalities
Unit 2 – Functions: Understanding Rates of Change	**Unit 6** – Trigonometric Functions
Unit 3 – Polynomial Functions	**Unit 7** – Trigonometric Identities and Equations
Unit 4 – Polynomial Equations and Inequalities	**Unit 8** – Exponential and Logarithmic Functions
	Unit 9 – Combinations of Functions + Course Review

Evaluation

The evaluation of your progress will be on a fairly regular basis. The Unit Tests are the most weighted assessments.

TERM 1	TERM 2	FINAL MARK	
Teacher Observations, Teacher-Student Conversations and Student Products (4 Tests, 1 Term Project, …)	Teacher Observations, Teacher-Student Conversations and Student Products (5 Tests, …)	**Combined Terms**	**70%**
		Summative (2 h Exam)	**30%**

All courses at Huron Heights SS conform to the assessment, evaluation and reporting policies and procedures of the Waterloo Region District School Board. Please visit the website (hrh.wrdsb.ca) for more information.

Practice

- **YOU MUST DO ALL PRACTICE ON A DAILY BASIS**; an "average" student must spend on average 1 ½ hours per weekday outside of class working on the course material. Your **MSIP** is a great opportunity for this.
- Please do work using a **PENCIL**.
- All practice questions should be attempted and **FINAL ANSWERS SHOULD BE CHECKED IN THE BACK OF THE TEXTBOOK REGULARLY.**
- ☺ PLEASE DON'T FEEL EMBARRASSED TO ASK AND ANSWER QUESTIONS DURING THE APPROPRIATE TIMES DURING OR AFTER THE LESSON ☺

MSIP

MSIP is an integral component of this course. Students are required to:

- ✓ **Attend MSIP every day** to meet the essential learning requirements of the course.

- ✓ **Effectively use MSIP to complete course work.** Effective uses of MSIP time include: completing practice ("homework"), working collaboratively, studying for tests or exams, working ahead on course projects or assigned readings, travelling to meet with teachers for extra help, or other activities as determined by the assigning teacher.

Extra Help

Our MSIP program is designed for you to get extra math help; use it regularly! Extra help with me is available most days during my MSIP (Period 2/B). If your MSIP is not during the same block, **you consult a math teacher during your MSIP.**

Missed Work

It is expected that students complete all assigned work in a timely manner. Students who are absent on the day of an assessment (e.g. test or presentation) or when an assignment is due, must speak with their teacher when they return to make arrangements to complete the required work. Whenever possible, students will inform their teacher in advance of their absence.

Each assessment will have a final date of submission after which it will no longer be graded. This date will be clearly communicated to students by the teacher. Work that has not been submitted by the final due date will be deemed "incomplete" for the purposes of grade reporting. Failure to complete all required work will negatively impact a student's final grade, and may prevent successful attainment of the credit.

In addition, students who do not submit work in a timely manner should expect to have this reflected in the Learning Skills and comments sections of the report card.

Materials
Before each chapter begins, print the lessons from:
http://mrpkennedy.com/

Be prepared each class with the following:
- ✓ **Scientific (non-programmable) calculator** *i.e.* **NO graphing calculator. NO smartphone**

DO NOT USE A PHONE OR ANY HANDHELD DEVICE, unless I have approved its use.

- ✓ Google Chromebook
- ✓ Course textbook
- ✓ The lesson printed from the website (see above)
- ✓ Graph paper ($2)
- ✓ 3-ring binder and lined loose-leaf paper
- ✓ Pencil(s), coloured pen(s), eraser, ruler

Textbooks are the property of HHSS and are on loan to students. You are responsible for maintaining the good condition of the textbook while it is signed out in your name. Ideally, the textbook should be wrapped properly to prevent damage. The replacement cost of a lost or damaged textbook is approximately **$101**. **The student is responsible for the replacement cost of a lost or damaged text.**