

MCV 4UI: Calculus and Vectors (Sem II 2019-20)



Teacher: Mr. Kennedy
Room: 2612
Textbook: Calculus and Vectors, Nelson, 2009.
Online Classroom: <http://mrpkennedy.com/>
Prerequisites: MHF 4UI (Gr. 12 Advanced Functions/University)*
*can be taken concurrently with this course

Ministry Strands (A to C) Welcome! This course is divided into these strands.

TERM 1	TERM 2
A. Rates of Change	B. Derivatives and Their Applications
B. Derivatives and Their Applications	C. Geometry and Algebra of Vectors

Assessment & Evaluation Unit tests are the most weighted summative assessments.

TERM 1	TERM 2	FINAL MARK
Student Products (Tests, Assignments), Teacher Observations, Teacher-Student Conversations	Student Products (Tests, Assignments), Teacher Observations, Teacher-Student Conversations	Rates of Change 20%
		Derivatives and Their Applications 20%
		Geometry and Algebra of Vectors 30%
		Final Summative Exam (2 ½ h) 30%

Course credit is earned upon successful demonstration of essential learnings, which are derived from the Ministry of Education course strands and overall expectations. Final marks are calculated based on the teacher's assessment, evaluation and professional judgement as these relate to the body of evidence produced by the student. **A passing mark on the final exam and/or course culminating activities does not guarantee a passing mark for that course.** For this reason, it is of utmost importance that students complete and submit all work that is to be assessed and/or evaluated.

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 can expect that this course has been designed to reflect the fact that course- specific student learning will take place during both class and MSIP time. As such, 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 may include: completing assigned practice, 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.

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 me when they return to make arrangements to complete the required work. Whenever possible, students will inform me 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 me. 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 textbook 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.**

Academic Integrity

Please carefully read the attached document