

CHEM 3PC3 - Mathematical Tools for Chemical Problems

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Introduction

- ▶ My name is Alexandre de Camargo you can call me Alex.
- ▶ I'll be the TA for the CHEM 3PC3 course.

Math
tools

- ▶ The content is extensive, so ask questions and do the exercises.

Quizzes and exercises

- ▶ Individual weekly quizzes that will be posted in the [website](#).
- ▶ Together with recommended exercises.
- ▶ You can ask me questions about the quizzes and the regular exercises.
- ▶ Try and error is part of the learning experience.
- ▶ If you need more exercises some references will be posted in the website.

Coding exercises

- ▶ In the era of A.I. you can ask chatgpt to solve the coding tasks in this course.
- ▶ There is no problem of using A.I. just try to understand what are you copying and pasting.
- ▶ I suggest that you try by yourself, and come to me if you don't understand the solution.
- ▶ There is no problem in starting the question as "I didn't understand what I have to do, so I asked chatgpt for it but I still don't get it".
- ▶ We can work around to try to understand the code.
- ▶ Coding as every subject, takes time to learn.
- ▶ And you need to practice as much as you can.

Coding exercises

- ▶ I suggest that you use [Google Colab](#).
- ▶ With this you don't need to worry about installing python in your local machine.
- ▶ The coding exercises will be **optional**.
- ▶ Highly recommend doing these exercises because you are going to have two Assignments that will involve coding.
- ▶ Where a .ipynb file will be requested showing your code.

Tutorials

- ▶ The tutorials will mainly work as a combination of theory and practice.
- ▶ I'll introduce a concept and then will do an example using the computer.
- ▶ As the time is limited some concepts may be rushed or may take more than one class to go through.
- ▶ So be sure to ask questions if you don't understand a concept.
- ▶ Contact by email decamara@mcmaster.ca
- ▶ Let's start !!!!

Intro to Python

- ▶ Introduction of some simple PyThon commands.
- ▶ Recommend the official [tutorial](#) for full information.
- ▶ In this class we are going to see how to print, work with lists, arrays, indexing and how to use a for loop.
- ▶ Let's [start](#).