# Assignment 1 - COEN 244

# Stuart Thiel

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#### Introduction

This assignment is worth 5% of your grade. This is an **individual assignment** (so individual, I put *your* student ID on it) and you should not share your assignment with anyone else. The **assignment is due Sep 29th at 11:59PM**, Montreal time.

All submissions must go through Moodle. I like EAS, but the new VPN rules suck.

# Q1) Filtering Files

Assume the information of all the TAs for the ECE department is stored in a file that is called TAs.txt. In order to be eligible for the TA position, a student should be currently registered and can not be an alumni. However, the file contains old data; it includes some records of TAs who have already graduated and who are no longer allowed to TA. The format of each TA record in the file is as follows:

Working\_Hours Student\_Id Year\_Hired Status First\_Name

The first line of the file should show the total number of students records (max number of records is 100).

Note that the TAs can be classified as any of the following (even if they don't all appear in your example):

- Grad
- UGrad
- Alum

# Part A)

You need to write a program that reads the file, removes any lines with invalid TAs (those who have Alum as the value for classification) and updates the original file.

Work with a vector of TA objects.

#### Example 1 Initial Student File: 10 3186602 2021 UGrad Fady 1002879 2021 UGrad Faisal 9356724 2020 Alum Yousef 2655547 2021 UGrad George Kenny 5456524 2021 Alum Initial Student File: After Correction: 3186602 2021 UGrad 10 Fady 1002879 2021 UGrad Faisal 2655547 UGrad George