**Team Rocket**

# Project Proposal

COSC 4P02
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## Introduction

- **Why this topic is important**

  The topic of course and program scheduling is important as it is something that nearly all Brock University students face each year. Every student's experience at Brock relies on their course selection and program requirements, so more focus must be put on making this recurring task as simple and as student friendly as possible.

- **What is the problem**

  The problem is that without a centralized location and planner tool for scheduling, students must try to track their progress and program requirements on their own some way, which gets lost in countless documents and frantic emails. Confusion (or even unawareness) when scheduling courses results in unneeded stress, delayed graduation times, and wasted resources for both students and staff. A portion of students are also unaware of their options in terms of concentration programs and minors. As time and credits are limited, it's important for students to be aware of their options and to be able to plan out their years early on.

- **What is the overall requirement**

  Our overall requirement is to create a tool that can make the course selection and discovery process simple for all students at Brock University.

- **Our solution**

  We are going to implement a user friendly dashboard and organizer which will allow students to easily lay out their course selection and see all of their options when it comes to their program requirements. It will also make the process less repetitive by tracking progress throughout a student's time at Brock.

- **Our objective/goal**

  Our goal is to create a user friendly, visually appealing course dashboard that students will be able to rely on no matter what point they're at during their university career. We aim to see a high use-rate of our organizer across the Computer Science department before ultimately integrating our tool into the Brock Portal for all students of the university to use.

## Project Description

To develop a website dedicated to Brock undergraduates that provides users with an interactive undergraduate calendar/course scheduler/organizer. Students will be able to see their  program details/requirements (i.e. required number of credits, required courses), an overview of courses that they've taken, a credit tracker, and etc.

In short, we'd like to develop a user friendly dashboard and organizer which will allow students to easily plan their course selection and see all of their options, which Brock currently does not have a centralized location for.

## Software Engineering Process

        For this project our team decided to use the Scrum approach which is a general agile method. We feel that having a series of sprint cycles in which we can develop an increment of our system would be useful for the kind of project we are developing. For example, one increment may be the functionality of selecting courses, then the ability to track credits will be added next sprint etc. We will be having weekly scrums where the team members will be able to discuss what they are working on as well as any issues/problems they might be having. One of the advantages of using the scrum method is that our project will be able to be broken down into several tasks that then be distributed between the team members; making the project easier to follow. We will also have the freedom to iterate over previously completed items that can be improved upon.

## Leader and GithubPage & Roles

        **Leader**: Liam Yethon
        **Github Repository**: https://github.com/LYethon/COSC4P02Project

## Timetable

| Week of | Goals for completion |
|---------|----------------------|
| Jan 19 | - Generate mockup designs of the dashboard and generate user stories |
| Jan 26 | - Complete requirements specification<br>- Complete use case diagrams **(1/2 Assign #2)**<br>  > Split up requirements and use case diagrams |
| Feb 7 | - Complete **remaining diagrams** and explanations **(2/2 Assign #2)**<br>  > Split up diagrams and explanations |
| Feb 16 | - Begin development |
| Mar 7 | - Release first version |
| Mar 16 | - Review first release<br>  > revise product, fix bugs, add features |
| April 3 | - Release second version |
| April 13 | - Review second release<br>  > revise product, fix bugs, add features |
| April 26-30 | - Complete and present final version |

**Course Due Dates:**

1. Project Proposal Mark: 10 % Due: **Sunday 17th Jan** at 23:55. Up to 3 pages
2. Requirements and Overall design Mark: 20 % Due: **Sunday 7th Feb** at 23:55
3. Other reports (for Design/Implementation/Test or, Release1, Release2, etc.)
    Mandatory: **March 7**, 15%  **April 3th** , 15%
    You may provide more reports/demos/presentations
4. Final Demonstration/Presentation/Report **26th to 30th April** , 25%

**<ins>Weekly Meetings Time</ins>**
    Every Tuesday @6:00PM - 6:30PM