



MASSEYHACKS IX

# HACKER INFORMATION PACKAGE



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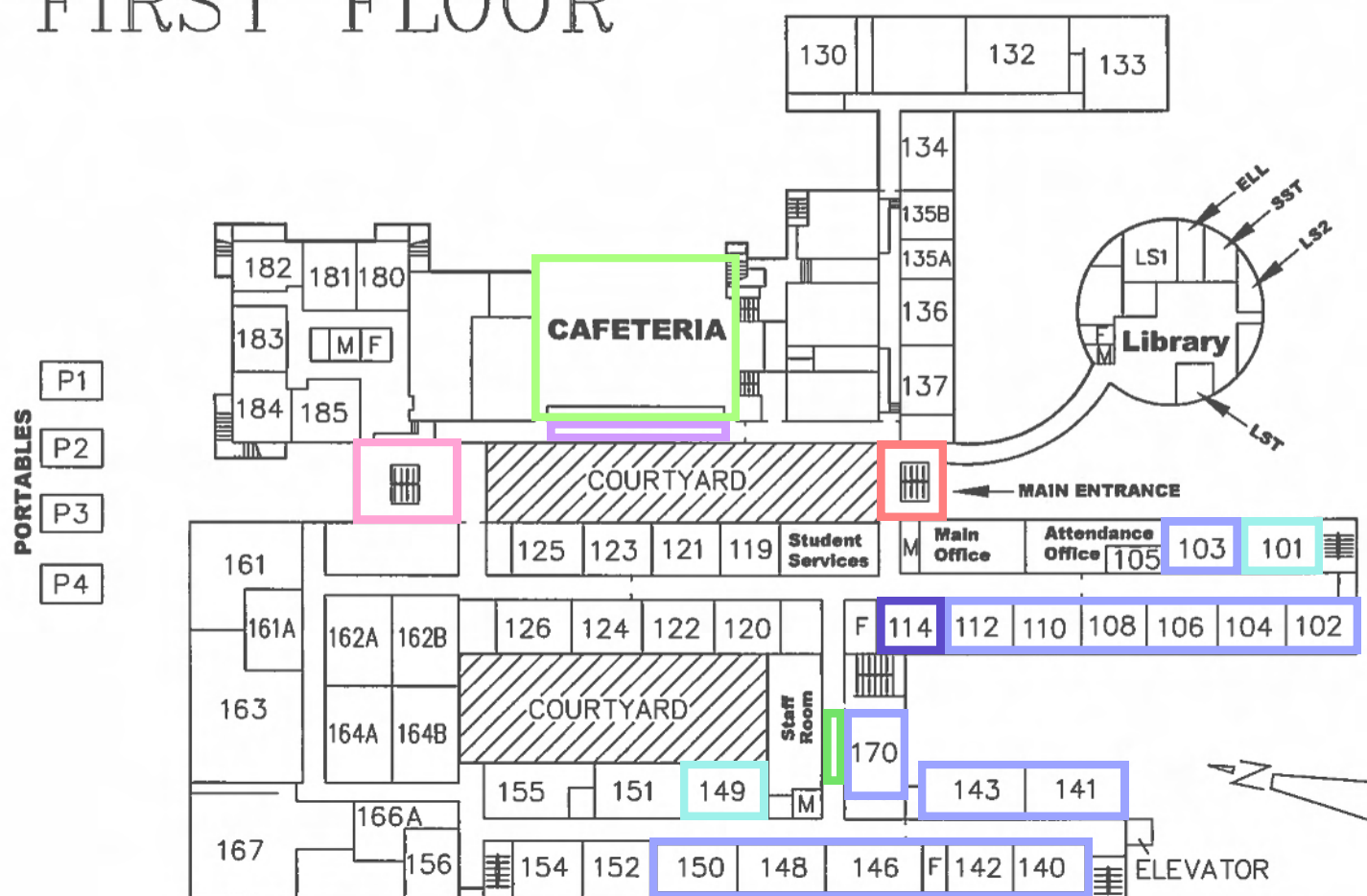
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# FLOOR PLAN

- Check-In/Check-Out Area
- Snack Booth
- NON-HACKER Storage Room
- Stairs to Opening/Closing Ceremonies
- Cafeteria
- Hacker Rooms
- Sponsor Booths, Laptop and Hardware Check Out
- Workshop Room

## WELCOME TO MASSEY

### FIRST FLOOR



Liberty St.



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# SCHEDULE

## SATURDAY, MAY 6TH

9:00 - 10:00 AM: *Check In*

9:00 - 10:15 AM: **Breakfast Snacks**

10:30 - 11:00 AM: *Opening Ceremonies*

11:00 AM: *Hacking Starts*

11:00 - 11:30 AM: **Team Formation**

11:45 - 12:45 PM: **Intro to Python I**

11:45 - 12:45 PM: **Flask**

1:00 - 2:15 PM: *Lunch*

2:30 - 3:30 PM: **Intro to Python II**

2:30 - 3:30 PM: **Intro to Unity**

3:30 - 4:30 PM: **Cup Stacking**

5:00 - 6:00 PM: **GitHub**

5:00 - 6:00 PM: **Soldering**

6:00 PM: **Hackenger Hunt Starts**

6:15 - 7:30 PM: *Dinner*

7:30 - 8:00 PM: **Careers in Tech**

8:00 - 9:00 PM: **Docker**

9:00 - 10:00 PM: **Karaoke**

10:00 - 10:30 PM: *Check Out*

## SATURDAY, MAY 6TH (Online)

11:30 - 12:30 AM: **Skribbl.io**

1:00 - 2:00 AM: **Minecraft Bedwars**

## SUNDAY, MAY 7TH

8:00 - 9:00 AM: *Check In*

8:30 - 9:30 AM: **Pancake Breakfast**

10:00 - 11:30 AM: **Therapy Dogs**

11:00 AM: *Hacking Ends*

12:00 PM: **Hackenger Hunt Ends**

12:30 - 2:00 PM: *Lunch*

2:00 - 4:00 PM: *Judging*

4:00 - 4:30 PM: **Trivia**

4:30 - 5:00 PM: *Closing Ceremonies*

5:00 - 5:30 PM: *Check Out*



# EMERGENCY

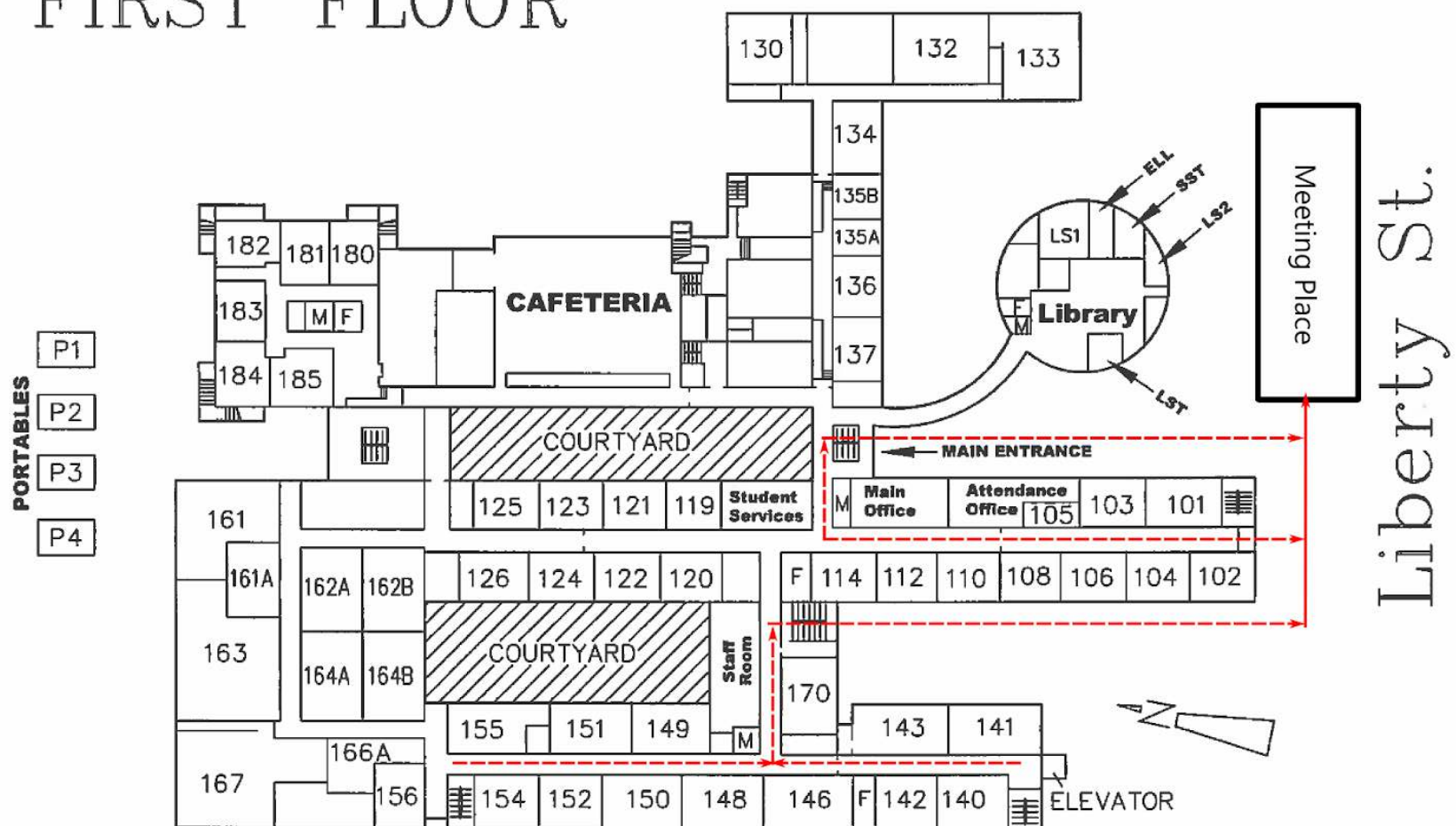
## Emergency Plan:

[https://masseyhacks.ca/files/emergency\\_plan.pdf](https://masseyhacks.ca/files/emergency_plan.pdf)

## Emergency Exits:

# WELCOME TO MASSEY

## FIRST FLOOR





# FREE RESOURCES

We have some amazing free resources that are available to **ALL** participants. You can find more information below.

**Gen.XYZ:** To claim a domain, please refer to the following link for more information

[https://drive.google.com/file/d/1ULJmvLg9Q3cSC\\_vMGIoh5EMVpBv6rBp5/view](https://drive.google.com/file/d/1ULJmvLg9Q3cSC_vMGIoh5EMVpBv6rBp5/view)

**Interview Cake:** Interview Cake offers free programming interview questions and helps you prepare for tech interviews at companies like Google and Microsoft. Please refer to the following link to claim your free course access

<http://interviewcake.com/r/YXOARU>

School computers and hardware kits are available to use during the event. Visit the cafeteria hallway to borrow one.



# INTRO TO PYTHON I

**Saturday May 6, 11:45 AM - 12:45 PM**

**Location:** Room 149

**Workshop Host:** Mr. McKenzie

Introduction to Python I is an introduction to programming and, by extension, how to think like a programmer. The inspiration for this workshop is the educational programming language Logo. Logo derives from the Greek logos, meaning word or thought. This language has been implemented and embraced by dozens of institutions from Apple to MIT since its creation in 1967. Most people think of Logo as "that language where you draw lines with a turtle." In the Introduction to Python I workshop we will be using the turtle module to introduce the fundamental programming concepts of variables, sequence, selection and repetition.

## **Resources:**

<https://www.python.org/downloads/>

<https://pypi.org/project/PythonTurtle/>



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# INTRO TO PYTHON II

**Saturday May 6, 2:30 PM - 3:30 PM**

**Location:** Room 149

**Workshop Host:** Mr. McKenzie

Introduction to Python II builds on the foundation of knowledge established in Introduction to Python I. The focus of the workshop will be on building the skills required to develop a simple game using pygame. We will set up a simple pygame template, explore basic drawing commands then focus on user interaction. We will develop the game of Pong and discuss how to approach a few other projects that are realistic to produce in a short period of time with minimal programming experience.

## **Resources:**

<https://www.python.org/downloads/>

<https://pypi.org/project/PythonTurtle/>





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# FLASK

**Saturday May 6, 11:45 AM - 12:45 PM**

**Location:** Room 101

**Workshop Host:** Jeremie Bornais

Looking to explore the exciting world of web development? Join us for our "Intro to Flask" workshop! Flask is a popular backend web framework that allows developers to quickly build web applications using Python. In this workshop, you'll learn how to create a basic Flask application, handle user input, and display data from a database. Flask is a great gateway into backend web development, making this workshop perfect for beginners who are interested in exploring this field. Don't miss out on the chance to jumpstart your web development skills with Flask!

## Resources:

Python3 installed, or replit or github codespaces

<https://www.python.org/downloads/>

<https://replit.com/signup>

<https://github.com/features/codespaces>



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# INTRO TO UNITY

**Saturday May 6, 2:30 PM - 3:30 PM**

**Location:** Room 101

**Workshop Host:** Bryan Holmes

Introduction to the concepts of an ECS based environment. What are entities, what are components? How does this work with a traditional coding flow?

## **Resources:**

<https://unity.com/releases/editor/qa/lts-releases?version=2021.3>



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# GITHUB

**Saturday May 6, 5:00 PM - 6:00 PM**

**Location:** Room 101

**Workshop Host:** Alex Millerman

Never fear, an easy to use version control system is here! With GitHub, you can create a repository in the cloud where each member of your group can push their code changes, and help make sure everyone has a copy of the same code on their own individual computers. It is a great tool to learn for anyone looking to work on their own personal projects and make sure they're not lost somewhere in the depths of their computer, and instead are easily accessible on the go. For more seasoned hackers, GitHub also offers built in tools to run your CI/CD pipelines, with lots of prebuilt templates accessible on their platform for free already.

## Resources:

<https://desktop.github.com/>

<https://github.com/signup>

<https://education.github.com/pack>

<https://code.visualstudio.com/>



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# SOLDERING

**Saturday May 6, 5:00 PM - 6:00 PM**

**Location:** Cafeteria

**Workshop Host:** IEEE (Aya Abu-Libdeh,  
Milad Moradi Heydarloo)

Join IEEE Windsor for a hands-on soldering workshop designed to take your electronics skills to the next level! Our instructors will guide you through the process and basic techniques of soldering through-hole electrical components. You'll learn how to identify components and read PCB layouts, use soldering tools. By the end of the workshop, you'll have a board of your own to take home!





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# CAREERS IN TECH

**Saturday May 6, 7:30 PM - 8:00 PM**

**Location:** Cafeteria

**Workshop Host:** Rahma Gillan, Tailai Wang

What does working in the technology industry look like? Explore different career paths and journeys through this workshop and AMA from a Massey alumnus!



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# DOCKER

**Saturday May 6, 8:00 PM - 9:00 PM**

**Location:** Room 101

**Workshop Host:** David Hui

In this interactive session, you'll gain a solid understanding of Docker's basic concepts. You'll learn how to create, run, and manage Docker containers, as well as how to use Docker to build and deploy applications in a variety of environments. By the end of the workshop, you'll have the confidence to start using Docker on your own, and you'll be well on your way to unlocking the power of containerization for your development and deployment workflows.

## Resources:

<https://docs.docker.com/desktop/>

<https://hub.docker.com/signup>



# IMPORTANT LINKS

**Discord:** <https://join.masseyhacks.ca/>

**Code of Conduct:** <https://static.mlh.io/docs/mlh-code-of-conduct.pdf>

**Devpost:** <https://masseyhacks9.devpost.com/>

**FAQ:** <https://masseyhacks.ca/#faq>