

CONUHACKS

IX

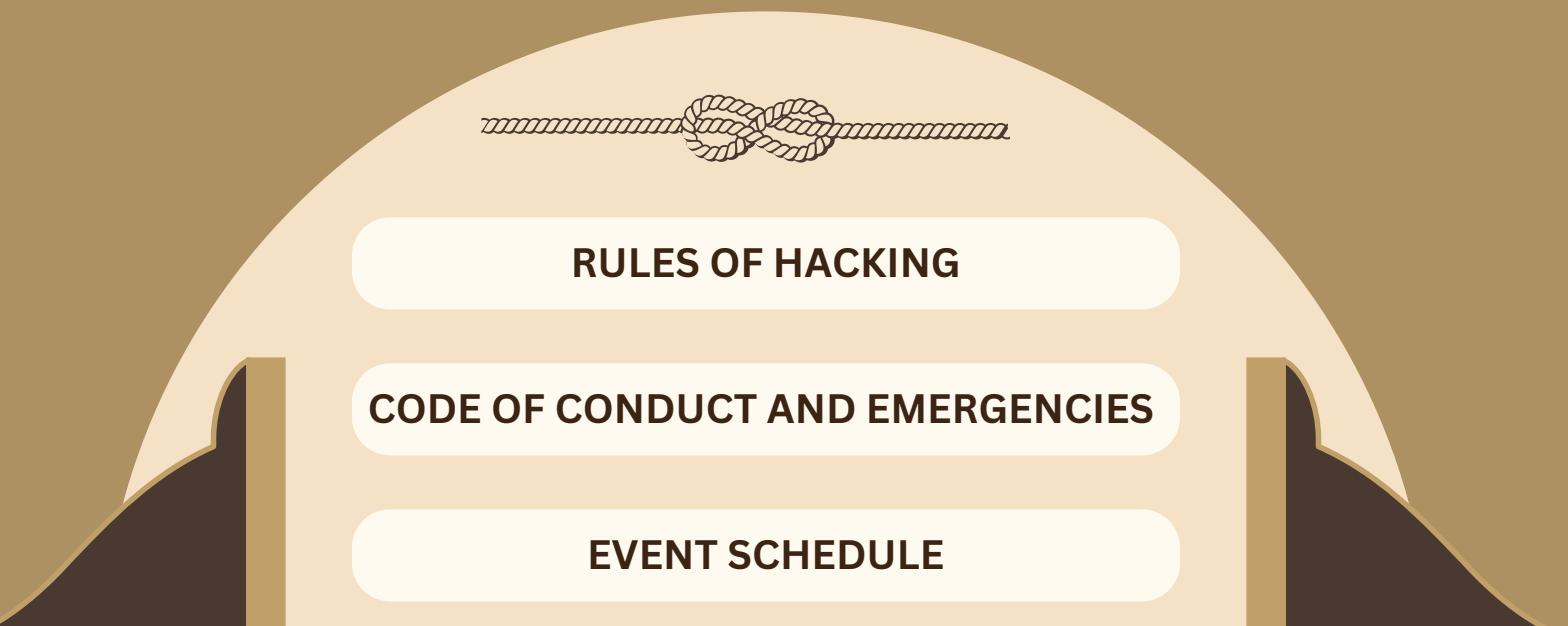


HACKER'S MANUAL
2025





TABLE OF CONTENTS



RULES OF HACKING

CODE OF CONDUCT AND EMERGENCIES

EVENT SCHEDULE

MINI COMPETITIONS

WORKSHOP SCHEDULE

STUDENT ASSOCIATION CORNER

SPONSOR CHALLENGES

JUDGING INSTRUCTIONS

MAPS OF THE UNIVERSITY

OUR SPONSORS

INTRODUCTION



WELCOME TO CONUHACKS IX

We are thrilled to return as the premiere hackathon in Quebec. This weekend, students, volunteers, and sponsors from across North America will converge to participate in a culture of sharing and learning.

This hackathon comes to life through the contributions of individuals like yourself – those who are dedicated to pushing boundaries and expanding their knowledge. It is fueled by your passion for learning and your commitment to shaping a better, more innovative world. We firmly believe that the most valuable reward a student can achieve is the realization that they possess the skills to craft remarkable creations from the fundamental building blocks of ones and zeros.

Welcome to ConUHacks IX! Let's make the most of the next 24 hours and create something extraordinary!



TERRITORIAL ACKNOWLEDGEMENT



We would like to begin by acknowledging that Concordia University is located on unceded Indigenous lands. The Kanien'kehá:ka Nation is recognized as the custodians of the lands and waters on which we gather today. Tiohtià:ke/Montréal is historically known as a gathering place for many First Nations. Today, it is home to a diverse population of Indigenous and other peoples. We respect the continued connections with the past, present and future in our ongoing relationships with Indigenous and other peoples within the Montreal community.





RULES OF HACKING

- 1. A team can be formed by no more than 4 people.
- 2. You must have started your project as of Saturday, February 1st, 2025 at 11:00am.
- 3. You must have completed your project before Sunday, February 2nd, 2025 at 11:00am.
- 4. You must submit your project on devpost and have a live demo of your work.

- 5. You must have linked your public Repository Git to your Devpost submission.
- 6. It is not allowed to submit your project from any other events.
- 7. Official time zone of the event “Montreal, QC” (UTC-5).
- 8. Submit your project at “devpost to be revealed”.
- 9. Participants must include a dedicated slide in their demo presentation indicating how AI tools (if any) were used in the project was utilized during their project.



WIFI & QR CODE

- Connect using the Wi-Fi
 - Option 1: Connect to ConcordiaGuest using the access code: **WAC-hack25** (case sensitive)
 - Option 2: Connect to eduroam with your school's standard login username and password



On the day of the event, have your QR code from the registration website open on your phone.



- You will need it for the Check-in on Saturday

CODE OF CONDUCT

In order to foster a safe and comfortable hackathon, please read and abide by the code of conduct at the following link: <https://static.mlh.io/docs/mlh-code-of-conduct.pdf>

Any violation will be handled with respect to this code of conduct. If you have any questions, please reach out to the appropriate channel or an organizer on Discord.



EMERGENCY CONTACTS

As a hacker, please flag a volunteer, team leader, or an organizer before calling Security! We are here to handle emergencies for your sake! Should you find no one around, please contact the following numbers for help.

Concordia University Security: (514) 848-3717

Dial 1 for urgent situations

Dial 2 for non-urgent situations

SATURDAY 1ST

EVENT SCHEDULE

7:00AM - 9:15AM

7:15AM - 9:15AM

9:30AM - 10:30AM

11:00AM

11:00AM - 5:00PM

11:30AM - 6:00PM

12:30PM - 2:00PM

6:15PM - 6:45PM

7:00PM - 9:00PM

REGISTRATION

BREAKFAST

OPENING CEREMONY

HACKING BEGINS

CAREER FAIR

WORKSHOPS

LUNCH

TECH TOGETHER MEET UP

DINNER

SUNDAY 2ND

7:00AM - 8:30AM

11:00AM

11:00AM - 1:00PM

11:30AM - 3:30PM

4:00PM - 5:00PM

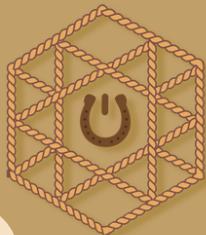
BREAKFAST

HACKING ENDS

LUNCH

JUDGING

CLOSING CEREMONY



MINI COMPETITIONS

DRUIDE COMPETITION

★ Tap'Touche Speed Typing Challenge ★

3:45PM - 4:45PM



TAIL'ED COMPETITION

★ Competition 1: Best Use of Lovable ★

- Push the boundaries of what's possible with Lovable—their AI-powered software engineer—and showcase its best usage!
- Access Lovable for Free:
 - Sign up at Lovable.dev
 - Go to Settings > Plans & Billing > Manage Subscription or click "Upgrade to Starter"
 - In the Stripe checkout session, add the promotional code "TAILED2025" under "Add promotional code" and click Apply
- Post your project and tag @Lovable_dev on X (Twitter)
- Prize: winning team will receive an interview opportunity with Lovable for the Customer Success role!

★ Competition 2: Best Social Media Post ★

- Create a LinkedIn post sharing your hackathon experience, project, and key takeaways.
- Tag @Tail'ed, @ConUHacks, and include your team name in the post.
- Prize: Each member of the winning team will receive an exclusive Tail'ed hoodie



WORKSHOP SCHEDULE

📍 JMSB ATRIUM

SATURDAY

11:30AM - 12:30PM

Make Your CV FAANG-tastic!

1:00PM - 2:00PM

MLH ACTIVITY

Github copilot

2:30PM - 3:30PM

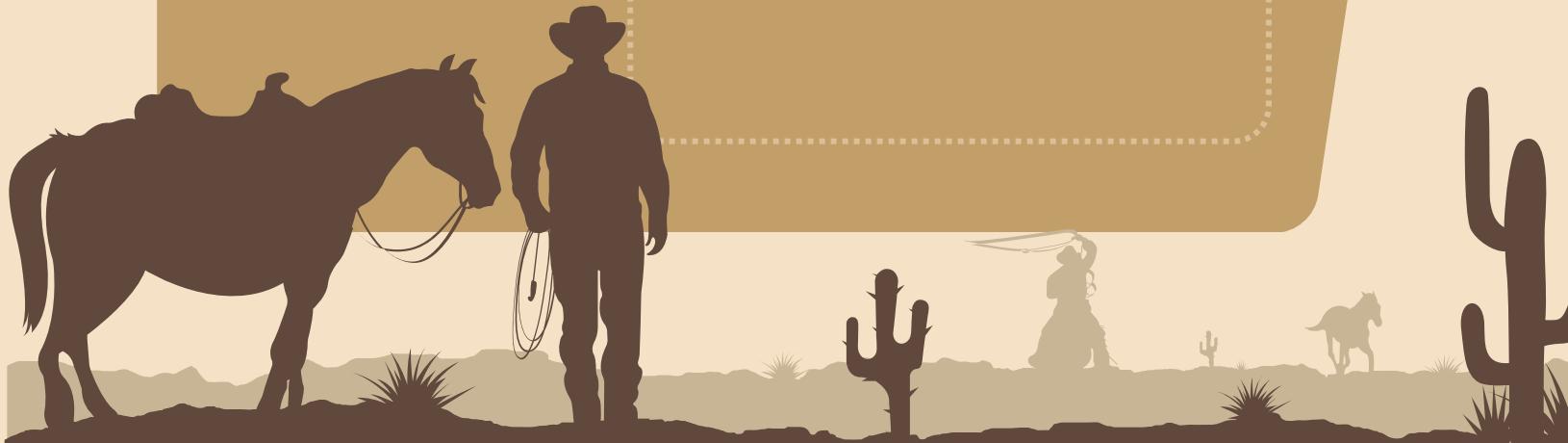
DRW

Revealed Feb 1st

5:00PM - 6:00PM

MLH ACTIVITY

FIGMA



STUDENT ASSOCIATION CORNER



📍 CAREER FAIR

Welcome to the Student Association Corner! This space highlights the diverse clubs and associations that contribute to our campus community.

Stop by to learn more about how these groups support innovation, collaboration, and personal growth beyond the hackathon. Don't miss out on the very exciting **competitions** they will be hosting!



CSCE



SPONSORED CHALLENGES



DRW Open Data Visualization Challenge

Everything we do at DRW is driven by data. Some of it is internal, but many decisions are made using publicly available datasets. In 2025, we challenge teams to tell us a story about an open dataset. Deliverables could include a tool, a dashboard, or an analysis, using publicly available data. One fantastic resource we have in Montreal is the City of Montreal's Open Data portal. Great submissions might create visualizations that address real-world challenges, highlight trends, or uncover hidden patterns. Whether it's transportation data, environmental statistics, cultural information, or any other relevant dataset, the key is to extract meaningful insights through visualization. Would you be more likely to find a Bixi if you came earlier or later? Do streets with free parking have more car break-ins? Are parts of Montreal with more road construction the most affluent ones? Are cars more likely to be towed in areas with low amounts of city parks? These are all examples of answers that live within the Montreal Open Data site.

Note: Teams are not restricted to using the Montreal Open Data Site, but can use any free and open data source.

Prize: JBL speakers to each member of the winning team (will be delivered at their home after the event)





Sun Life

AI-Powered Financial Wellness Companion

Sun Life is committed to helping individuals achieve lifelong financial security and live healthier lives. In this challenge, we're asking you to leverage the power of AI to create an innovative digital solution that promotes financial wellness and helps users make informed financial decisions.

Design and prototype either a website or mobile application that serves as an AI-powered financial wellness companion. This digital tool should assist users in managing their finances, understanding complex financial products, and making personalized recommendations to improve their financial health.

Prize: 100\$ Amazon gift card per member



Gunfight-inspired Game

This year again, we challenge you to create a small video game!

A 1vs1 gunfight-inspired game, a top-down adaptation of the gunfight game mode from Call of Duty.

- **Base challenge: 1v1 top-down shooter.**
- **Improvements ideas: round system, score limit, random weapons, 2v2, etc.**
- **Emphasis on creativity, innovation, and fun.**
- **Mainstream engines (Unreal, Unity) can be used, but custom-built solutions (C++ with SDL/SFML, Java, ...) will be highly valued.**

Be creative, have fun, and push your ideas as far as possible to win this challenge!

Prizes: 4x Hyperx Cloud Alphah Headsets, Logitech G502x wireless mouses, Logitech G413 SE Keyboards and Call of duty Black Ops 6 Games on their preferred platform



Optimizing Firefighter Deployment for Wildfire Management

Your role is to construct a software solution focused on dynamically optimizing the deployment of firefighter teams to handle wildfires. Firefighter teams respond to wildfire incidents within a specified operational period and with varying levels of priority and complexity.

Guidelines:

1. Use basic AI or machine learning algorithms to predict availability and optimize scheduling.
2. Implement a simple user interface to input CSV files and visualize the results.
3. Ensure the application accounts for all constraints and provides real-time updates on team availability.
4. Make the dashboard or final output intuitive and insightful for decision-makers in emergency response.

Prize: Tour and Lunch with our iXp internship hiring managers at the Montreal office for the first three winning teams !

JUDGING INSTRUCTIONS FOR HACKERS



ConUHacks IX Organizers will announce when the judging demo time is starting in the Discord server.

GO TO DEVPOST

Head over to ConUHacks IX devpost and navigate to the tab for **TABLES**. Find your **table #** and which wave you will be presenting in. There will be two (2) waves of **approximately 50 teams**!. Check the Discord **#announcement** channel to know which wave your team is in.

NOTE: Make sure to indicate a main **contact** that we can reach out to.

GET TABLE

Remember, the judging period comes in **two waves of approximately 50 teams**¹ each. If you are in the second wave, **keep an eye out for an announcement on Discord**.

When it's your team's turn, head over to **JMSB 1st floor, where the Career Fair was located**, to find your table.

Judging takes approximately **one hour in total**.

MEET YOUR JUDGE

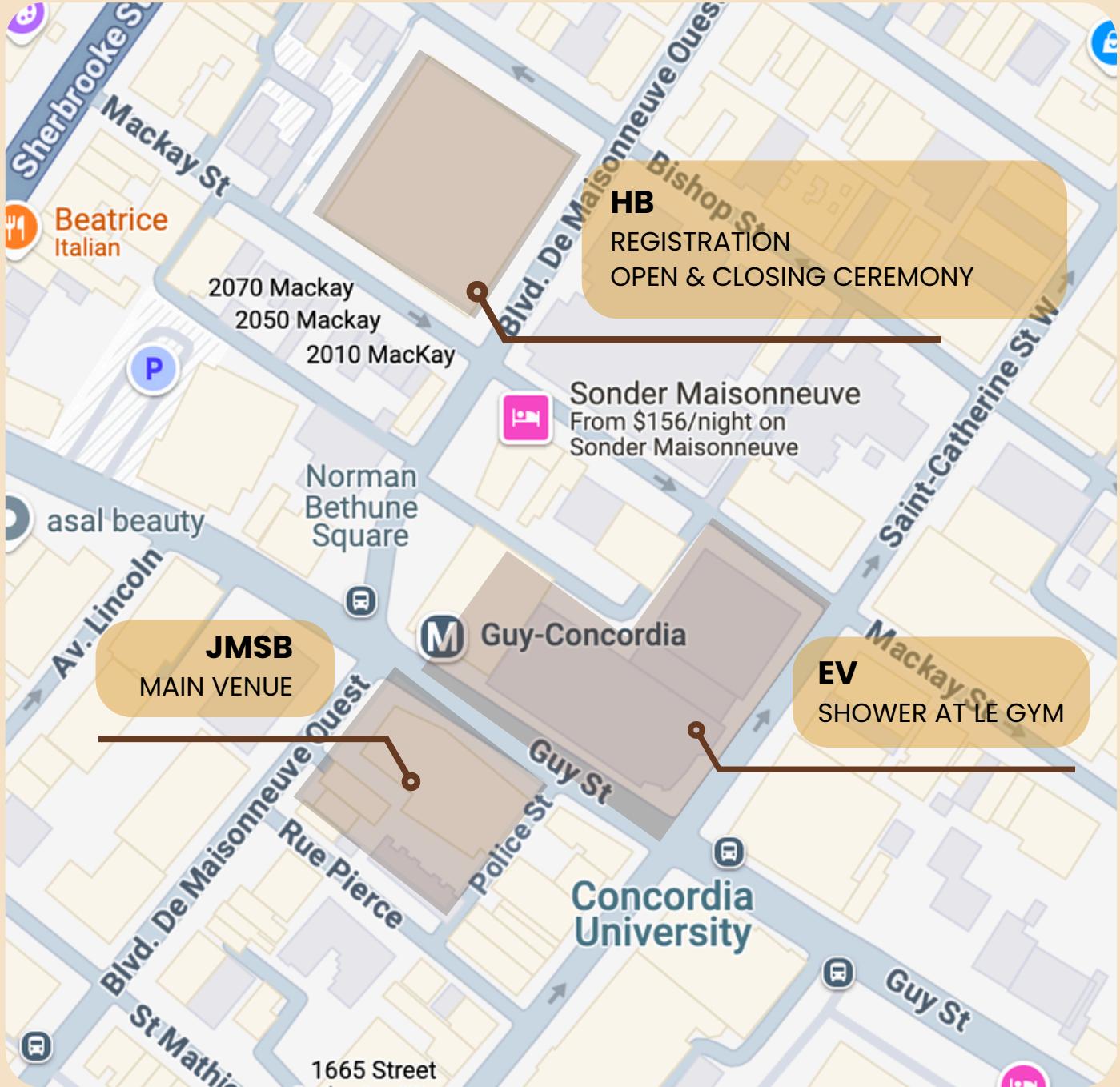
Your project will be judged by at least **two (2) different judges**. If you are not judged thrice, please **ping an organizer**.

If you did a **sponsor challenge**, a **sponsor judge** will come to you. They will be in the same area and will be **judging you first**.

¹ The number of teams per wave can change on the day of the event. Please make sure to check the announcement on Discord.

CAMPUS MAP





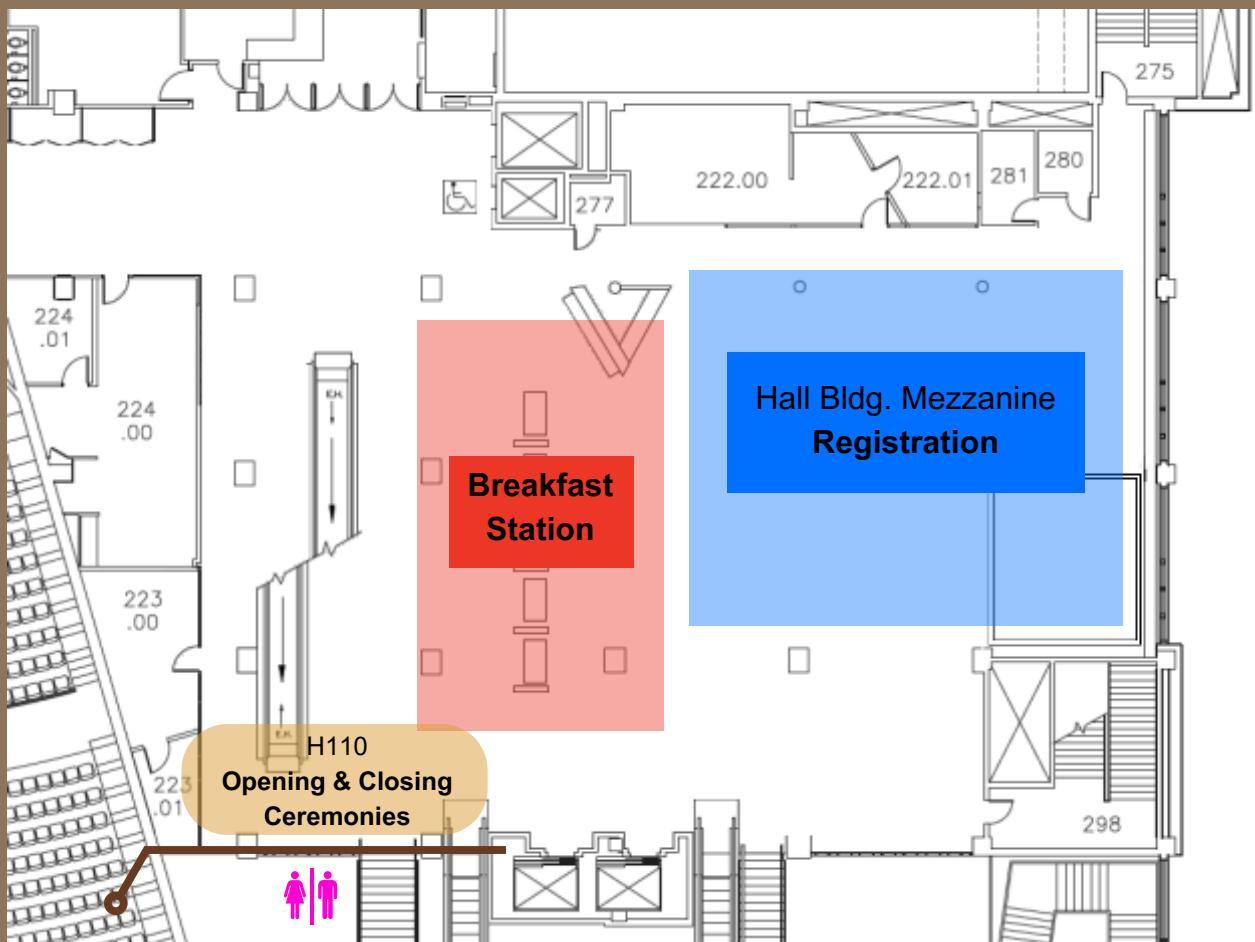
We know, it's freezing outside!

Underground paths are available to connect between the buildings

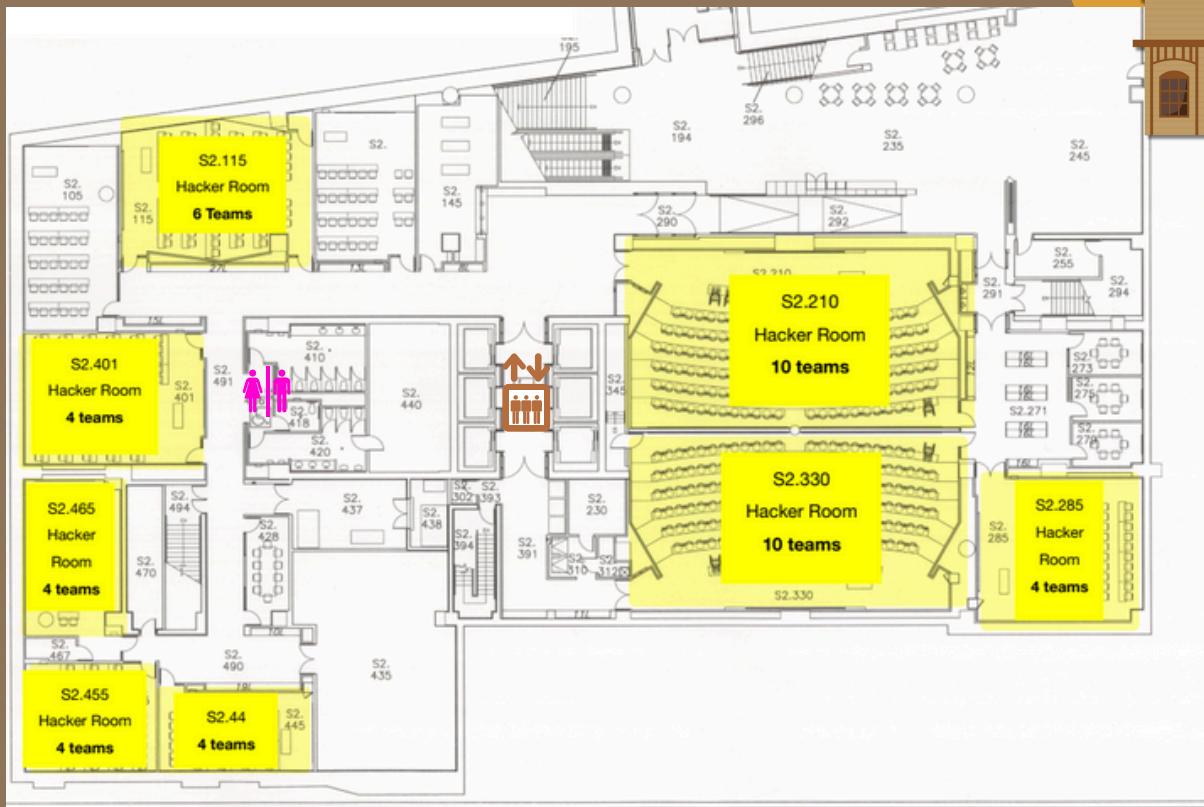
LEGEND

- Registration
- Mentor Room
- Career Fair
- Workshop Room
- Judging Area
- Food Station
- Hacker Room
- Sleeping Room
- Activity/Events
- Reserved Room

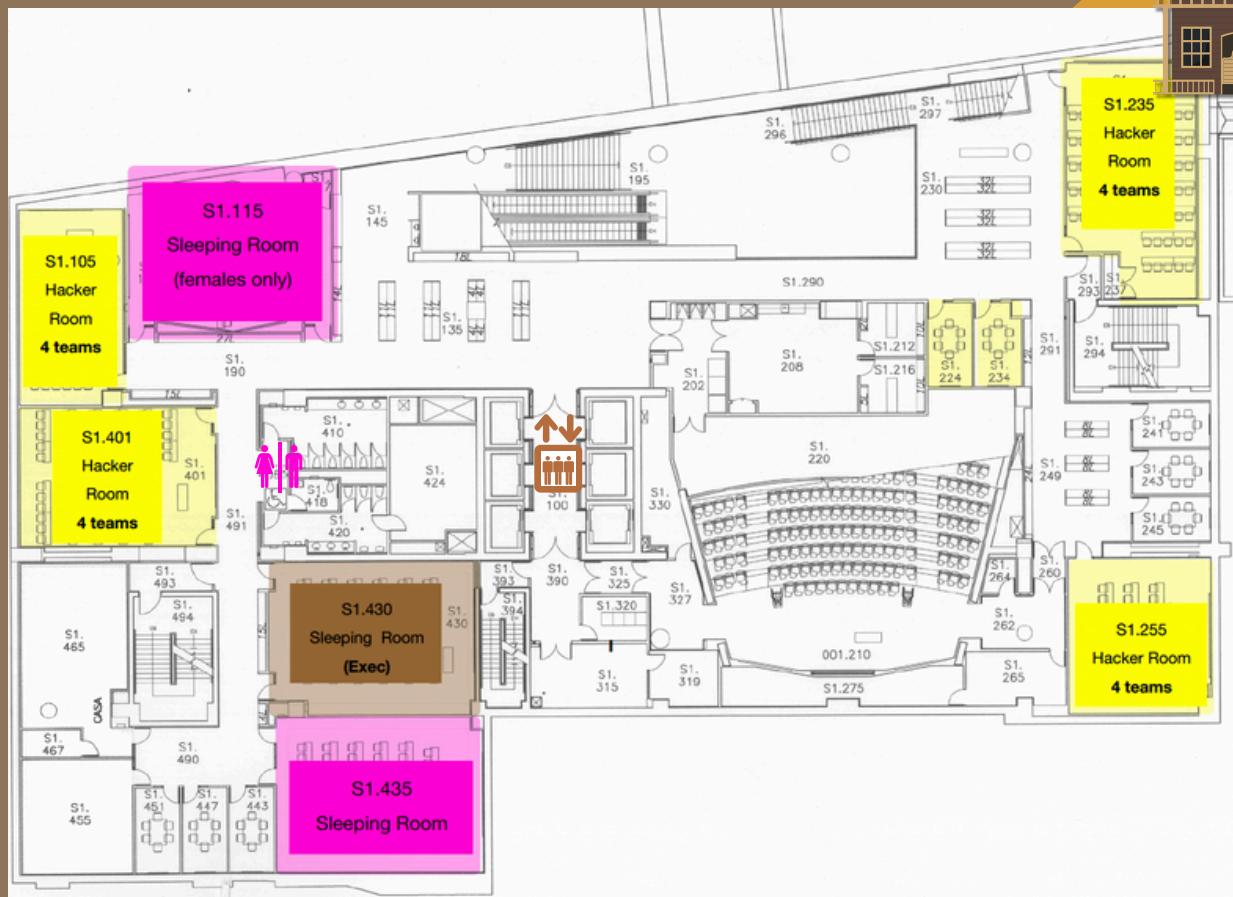
Hall Mezzanine



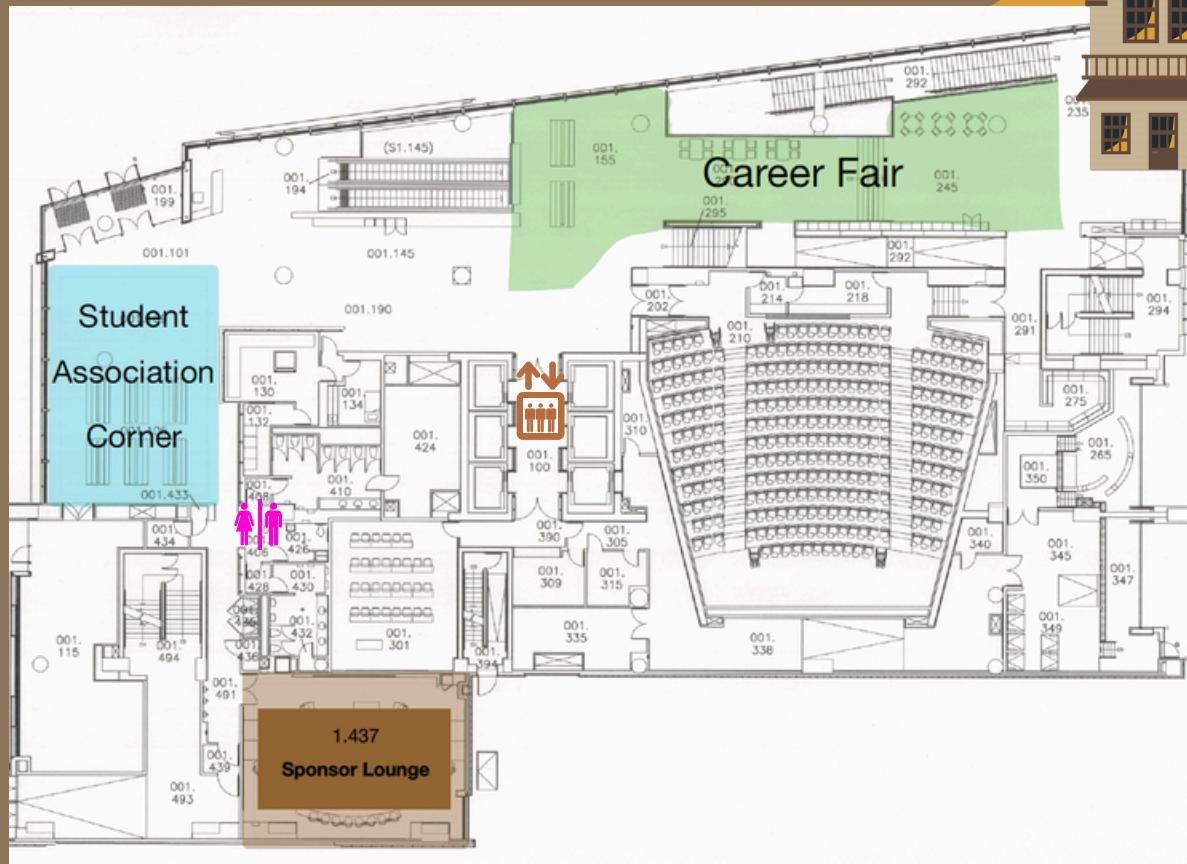
JMSB Sub-basement 2 (s2)



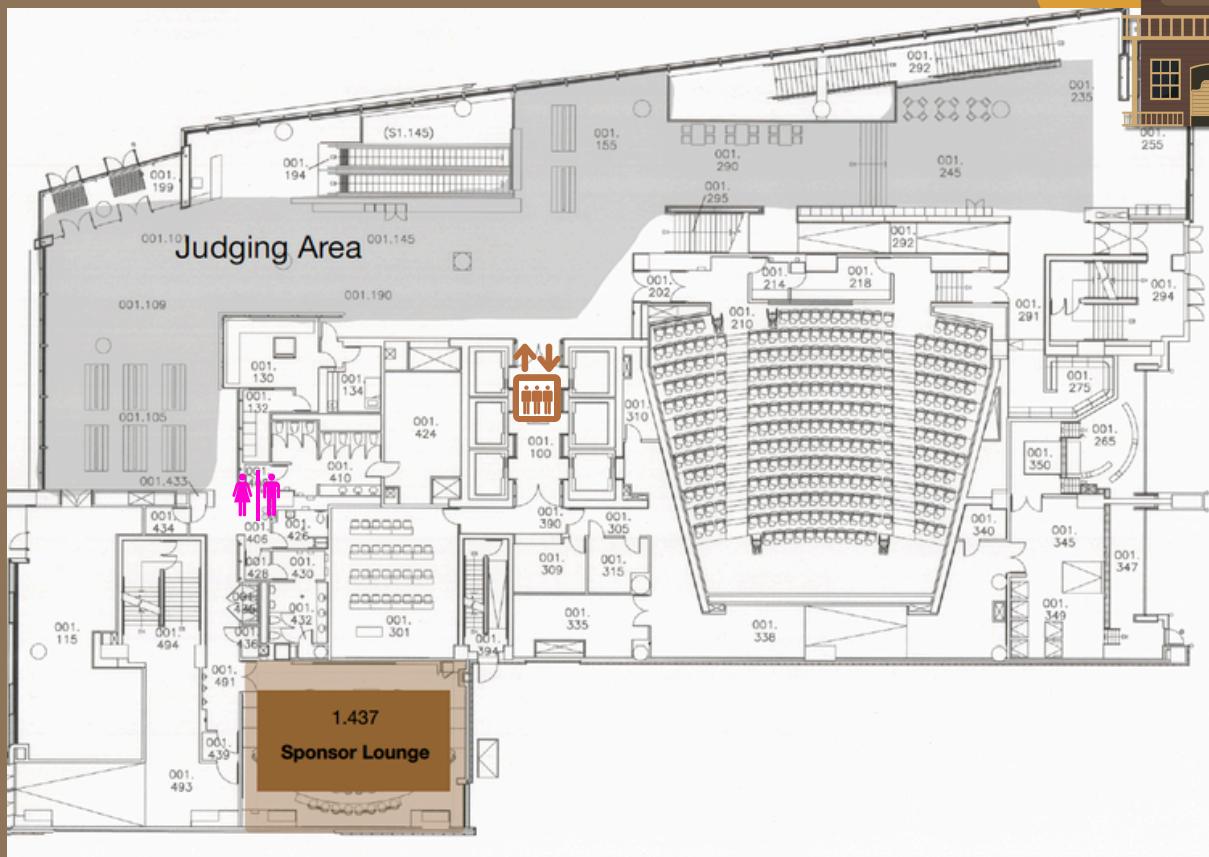
JMSB Sub-basement 1 (s1)



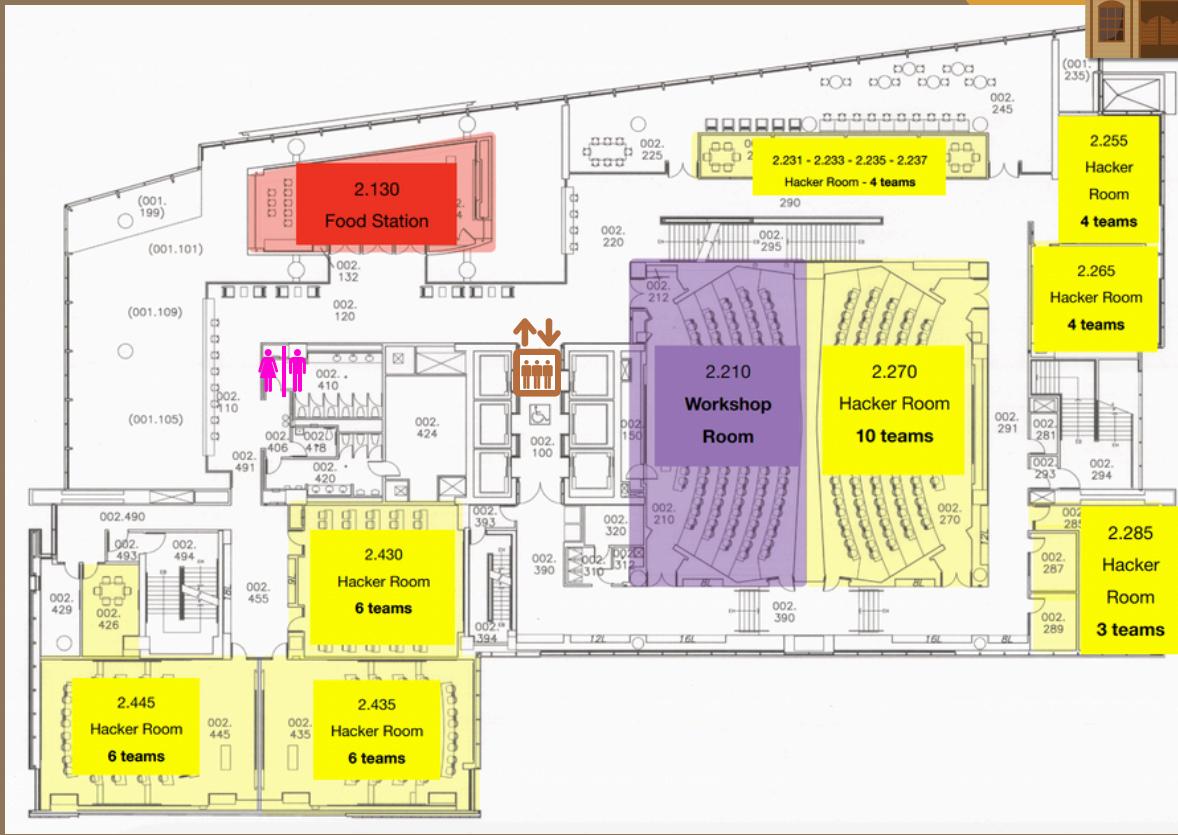
JMSB 1st Floor - SATURDAY



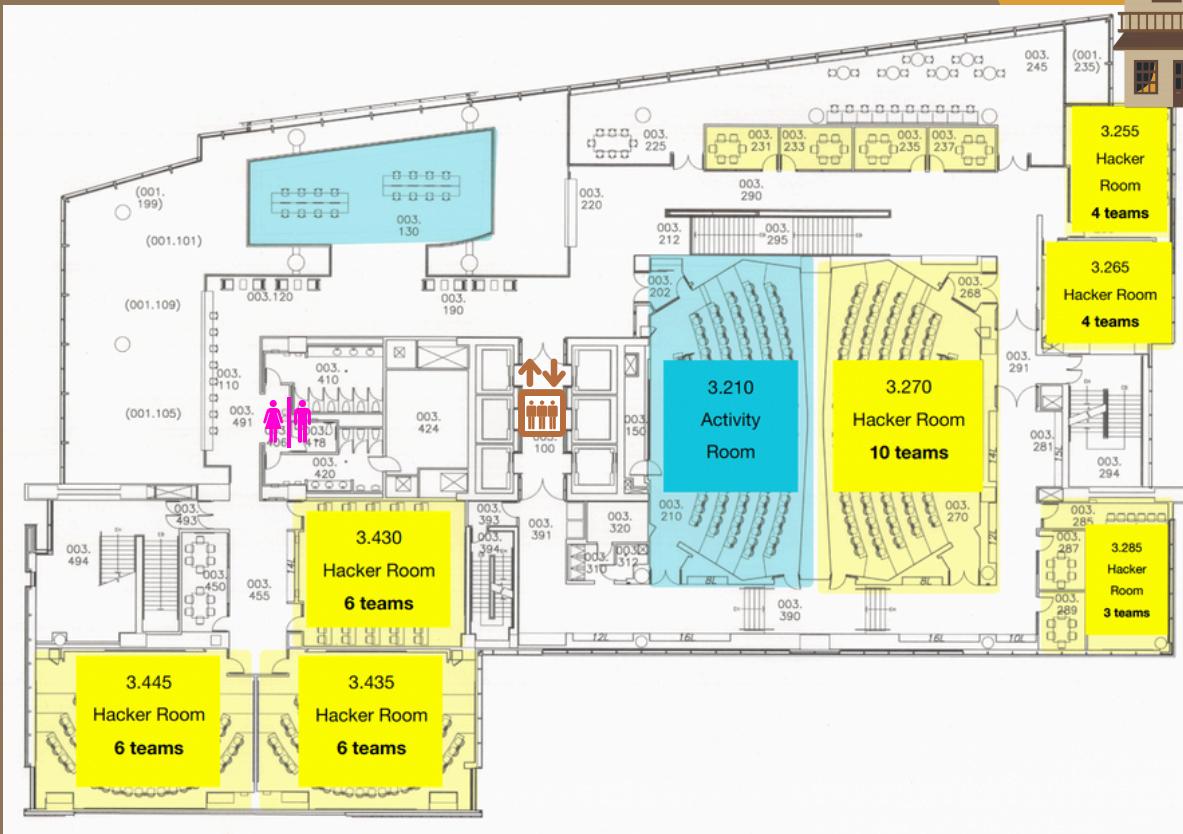
JMSB 1st Floor - SUNDAY



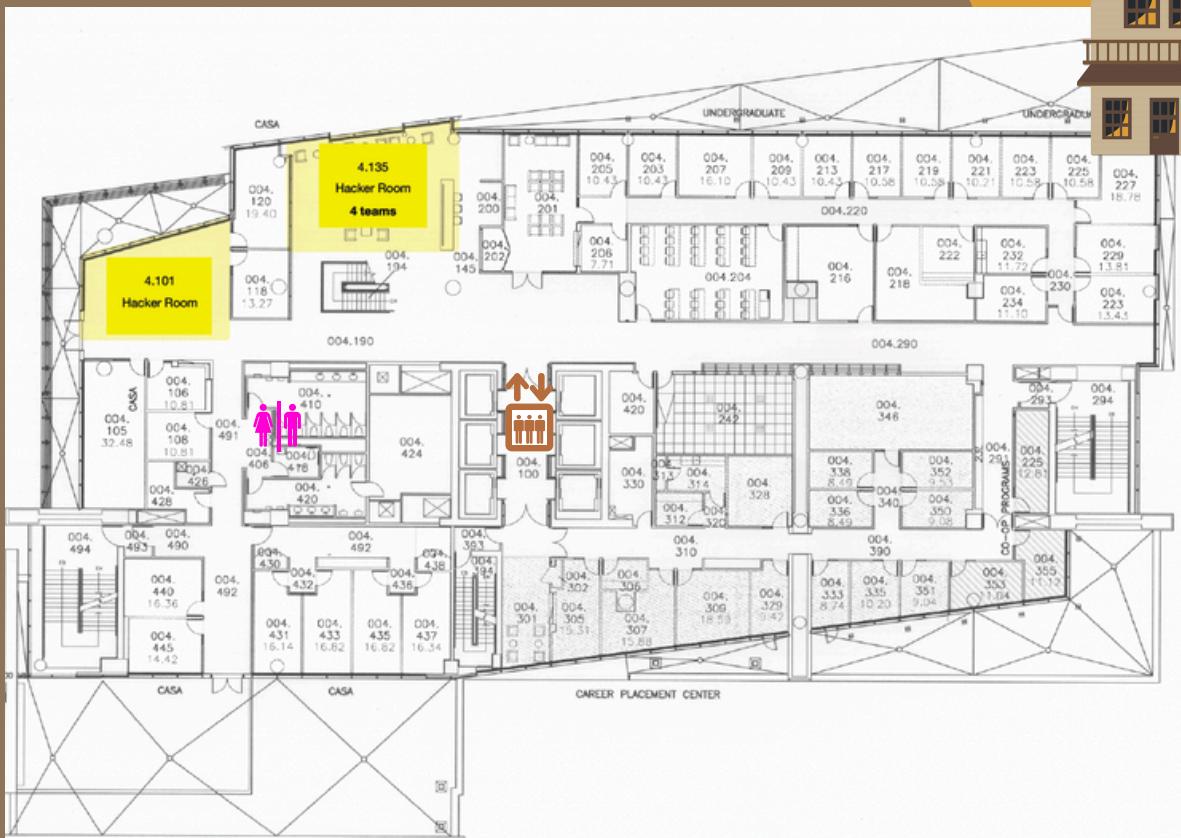
JMSB 2nd Floor



JMSB 3rd Floor



JMSB 4th Floor



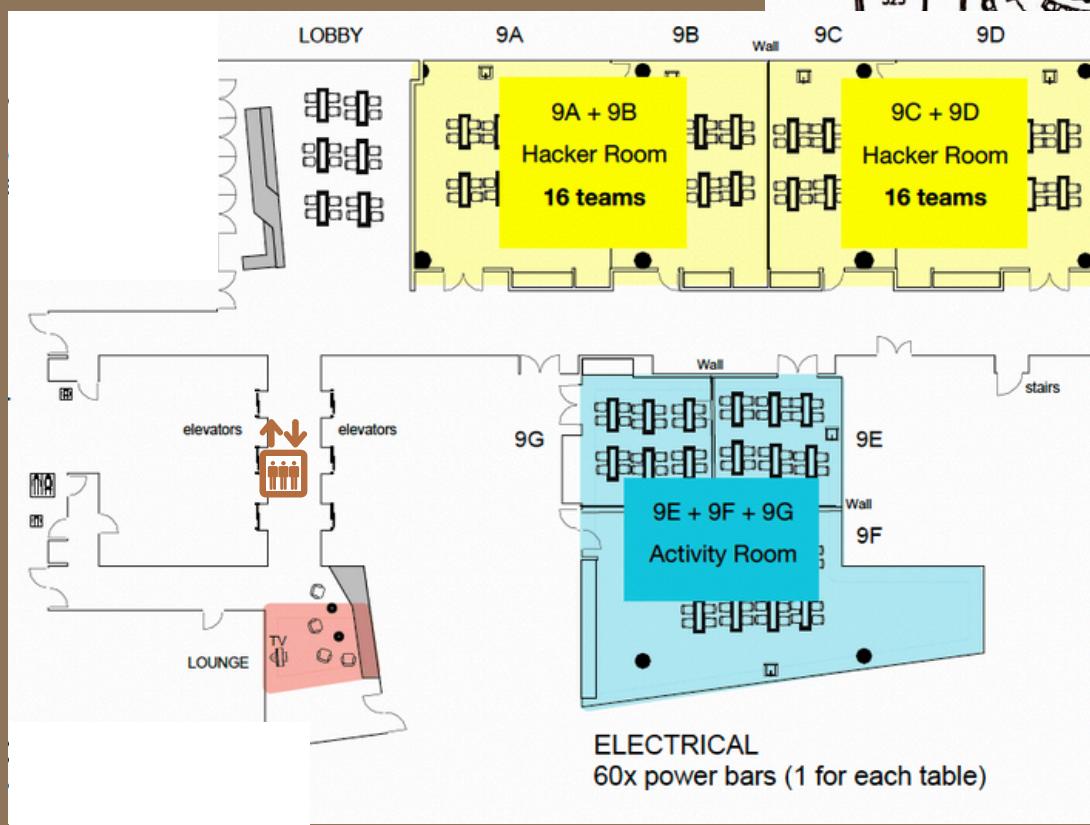
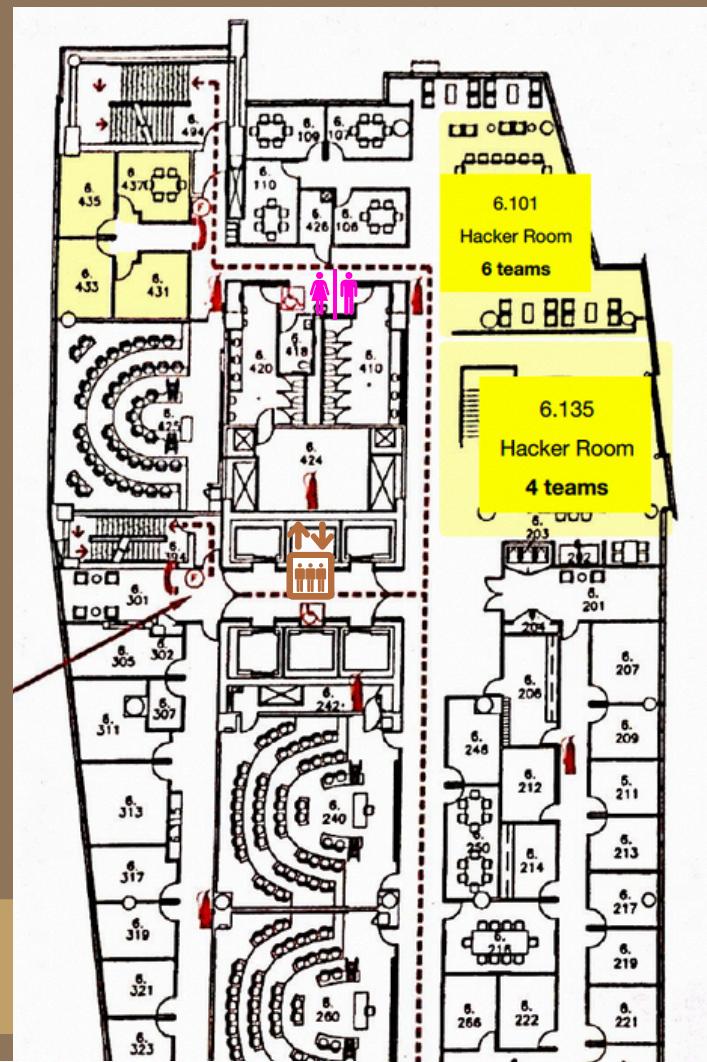
JMSB 5th Floor



JMSB 6th Floor



JMSB 9th Floor



OUR SPONSORS



DRW is a diversified trading firm with over 3 decades of experience bringing sophisticated technology and exceptional people together to operate in markets around the world. We value autonomy and the ability to quickly pivot to capture opportunities, so we operate using our own capital and trading at our own risk. Headquartered in Chicago with offices throughout the U.S., Canada, Europe, and Asia, we trade a variety of asset classes including Fixed Income, ETFs, Equities, FX, Commodities and Energy across all major global markets. We have also leveraged our expertise and technology to expand into three non-traditional strategies: real estate, venture capital and cryptoassets. We operate with respect, curiosity and open minds. The people who thrive here share our belief that it's not just what we do that matters—it's how we do it. DRW is a place of high expectations, integrity, innovation and a willingness to challenge consensus.



Approved by Concordia University as an external housing alternative, **Campus1 MTL** is located within walking and biking distance to Concordia's bustling downtown campus. Campus1 MTL offers spacious urban living and state-of-the-art amenities in a secure environment. With professional on-site management and 24/7 security, Campus1 MTL provides the peace of mind you need so your academics can remain a priority! As Montreal's premier destination residence, Campus1 MTL features a variety of fully furnished layouts and incredible amenity spaces from a penthouse sky lounge, cardio and yoga studio, indoor basketball court, arcade room, innovation lounge, communal and quiet study rooms, a movie theater, and much more. Campus1 MTL is the ultimate student residence experience.



Sun Life

Sun Life is a leading international financial services organization providing asset management, wealth, insurance, and health solutions. We're a global company with a passion for people, helping our Clients achieve lifetime financial security and live healthier lives. Through our own digital leadership journey, we understand the importance of embracing new tools and innovations, evolving the way we work, and delivering truly exceptional Client experiences. We are honoured to support ConUHacks IX, and to support the next generation of digital leaders. sunlife.com



Based in Montreal and Quebec City, **Beenox** has 25 years of expertise in game development. As an Activision studio we are leaders in interactive entertainment and involved in the creation of renowned titles.

We are proud to be a major contributor to the popular Call of Duty franchise, crafting content for the Warzone seasons, owning the development of the PC version of Call of Duty, and being involved in the development of the new Call of Duty®: Warzone™ Mobile. Throughout our history, we have also contributed to the success of Crash Bandicoot, Tony Hawk's Pro Skater, Skylanders, Spider-Man and Guitar Hero.

Working at Beenox means being part of a motivated and supportive team where we collaborate to achieve a common goal: crafting memorable gaming experiences for millions of gamers. It's a stimulating and rewarding environment where everyone has a voice and an impact on the projects and the studio. Come join the best team in the industry to work on exciting and creative projects!





SAP is one of the world's leading producers of software for the management of business processes. Our main focus is to provide multiple business functions with a single view of the truth so they can better manage complex business solutions.

We are proud to be a continuing sponsor of ConUhacks. We're excited to once again challenge the hackers of ConUhacks 2025. We hope you enjoy your time, make meaningful connections, and have fun!

Lastly, to those interested, here at SAP, we have an established internship program called iXp. Our roles are flexible, challenging, and will have you work directly on projects that affect our final products. Internships are available each trimester, coinciding with school terms. Though we have an office in Montreal, you are free to look at our other locations such as Vancouver, Waterloo, or even abroad.

You can take a look and apply to our openings [here](#). We encourage you to apply to anything that interests you



Hackers, this weekend represents an amazing learning experience!

Share your ideas, keep an open mind and go for it!

At **Genetec**, innovation is part of our core values, which is why we encourage you to break the mold and try new things throughout the competition.

As a Montreal company that supports the next generation of leaders, we wish you all the best during Conuhacks VIII!

Visit us at: <https://www.genetec.com/>





UBISOFT

With 3900 employees, Ubisoft Montreal, created in 1997, is now the biggest videogame studio in the world. The teams want to enrich players' lives with original and memorable gaming experiences. Their commitment and talent have brought to life many acclaimed franchises such as Assassin's Creed, Rainbow Six, Far Cry, For Honor, Watch Dogs, Prince of Persia and many more.



Druide informatique is a Quebec-based company specializing in the production and distribution of software, such as Antidote and Typing Pal.



At Tail'ed, we are proud to partner with ConUHacks to provide technology students with unique opportunities for learning and professional development. Together, we share a common vision: building an inclusive and equitable tech ecosystem where every talent can thrive, regardless of their background or journey.

Through this partnership, students will have access to events, valuable resources, and a network of professionals dedicated to their success. Together, we support diversity and lay the foundation for lasting change to inspire the next generation of tech leaders.

Explore all our resources through our free app at app.tailed.ca.



COMMUNITY
PARTNERS



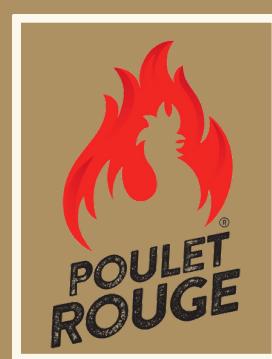
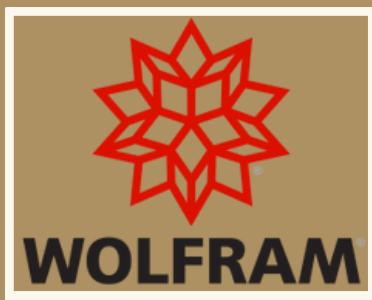
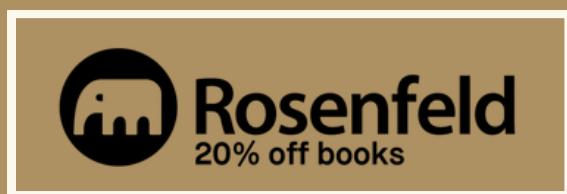
UNIVERSITÉ
Concordia
UNIVERSITY

MEDIA
PARTNER

1690 AM
cjlo
.COM



★ OUR IN-KIND SPONSORS ★





On behalf of the whole HackConcordia team, we would like to thank our sponsors for helping us host Concordia University's annual hackathon. ConUHacks is made possible by the immense support of our sponsors. Special thanks to the late Dr. Terrill Fancott, ConUHacks' founder, Dr. Gina Cody, Canada's first female building engineer, Dr. Graham Carr, President and Vice-Chancellor of Concordia University, Dr. Mourad Debbabi, Dean of Gina Cody School of Engineering and Computer Science, Dr. Lata Narayanan, Chair and Professor of Computer Science and Software Engineering, Dr. Constantinos Constantinides, ConUHacks' advisor, the Concordia University administration, and our volunteers. Their continued support was necessary for us to organize the province's biggest hackathon, year after year. Last, but not the least, we would like to thank you fellow hacker, for hacking with us and being part of this incredible event. Happy Hacking!

